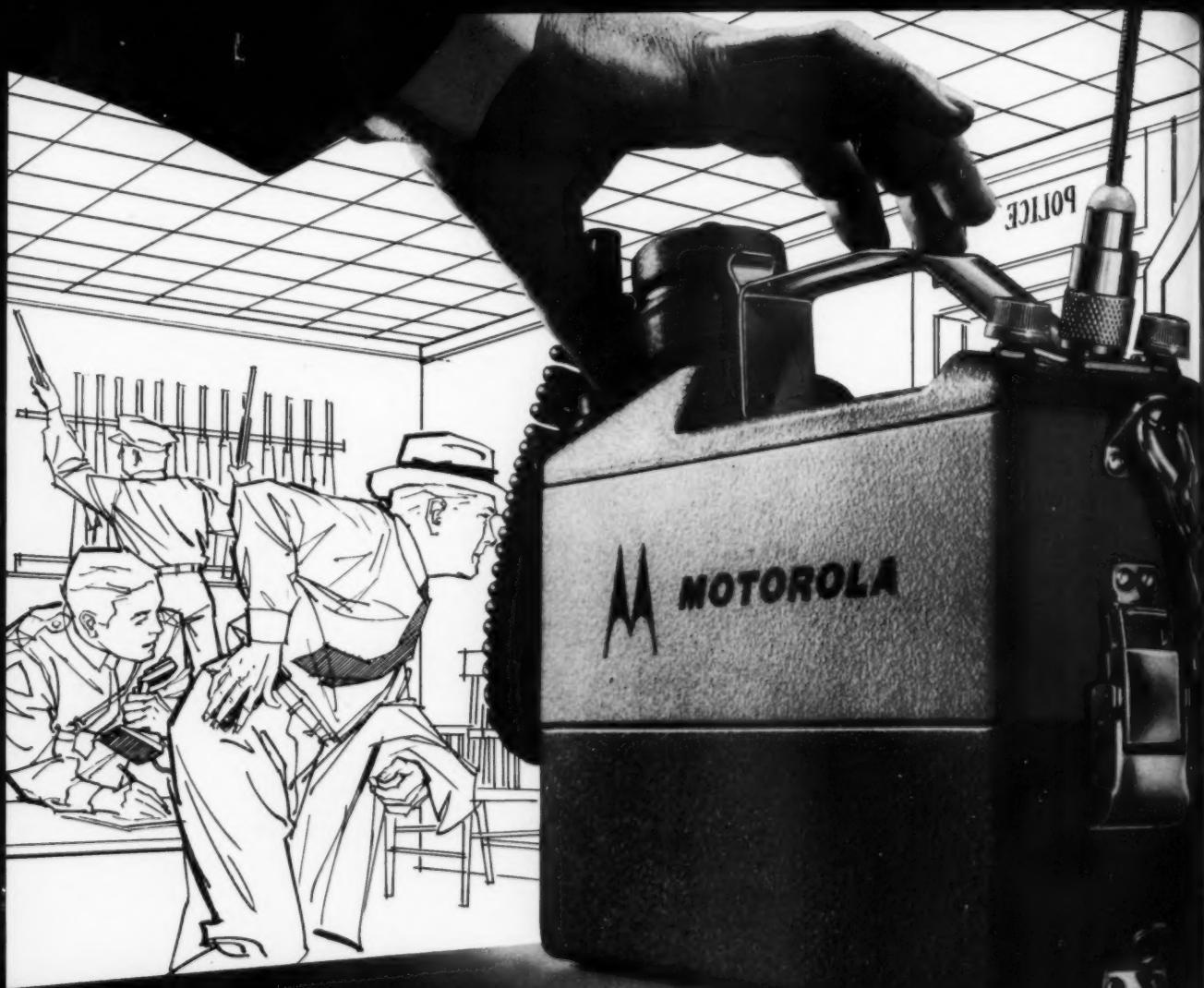


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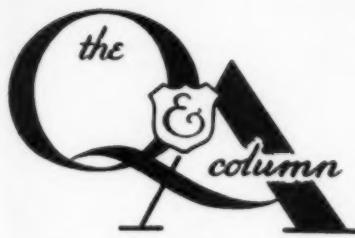
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Compiled by
John I. Schwarz,
Chief of Police, Easton, Penna.

The Illegitimate Child

Q. What is a bastard?
A. An illegitimate child. A child born out of wedlock.
Q. Would a child born after marriage but conceived before marriage of the parents be a bastard?
A. No.
Q. What is the law relative to concealing the death of a bastard child?
A. Any woman, alone or with other, concealing the death of any issue of her body, whether it be born dead or alive, but which if it had been born alive would be by law a bastard, is guilty of a misdemeanor.
Q. A child born to legally married parents dies shortly afterwards. They bury it and do not report the death. Are they guilty under this act?
A. No, they are not, due to the fact that the child was not a bastard, although they can be prosecuted for not reporting to the health authorities.
Q. What charge would you bring against a person who assisted in concealing the death of a bastard child?
A. Accessory before the fact to the crime.
Q. Where is a case of concealing the death of etc., tried?
A. In the Court of Oyer and Terminer.
Q. Is this offense bailable by a Justice of the Peace?
A. Yes.
Q. A doctor commits an abortion on a woman and delivers her of a six-month old fetus, which he then burns in his furnace. What charges could be brought against the doctor?
A. Abortion causing death and concealing the death of a bastard child.
Q. What is the charge if a bastard child is born alive and not reported?
A. There is no offense under this act. It is a violation of the health laws relative to the reporting of all births and deaths to the Registrar of Vital Statistics.
Q. Is there any crime committed if any parent shall wilfully neglect to support a child born out of lawful wedlock?

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LAW AND ORDER

AN INDEPENDENT MAGAZINE
FOR THE POLICE PROFESSION

November, 1959
Volume 7 No. 11

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ABOUT THE COVER: Police instruction at a university level has made great strides during the past few years. Here is a session of police combat training at Indiana University. A. Robert Matt, in tower, is co-ordinator of the police program.

Photo Courtesy Indiana University

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Stephen P. Kennedy

To The New Policeman

THE LAW is a system of rules of behavior by which men determine to live. Law is that which keeps society from becoming a snarling jungle. Every civilization has had its law—from the earliest tribal customs to this, the mid-twentieth century. Man cannot exist as a rational being without law. The strong would destroy the weak. Evil men would kill the good. Anarchy would prevail. Each man—by tooth and claw—would fight to live to the end that none would survive as human beings but would revert to the status of animals.

To be universally observed, a moral justification for the law must exist. It cannot be regarded as a system of stratagems whereby one group—or individual—gains ascendancy over another by exploitation of the latter. Man-made law—as contrasted to the Ten Commandments, for example—is imperfect at its best. In the Ten Commandments, God laid down simple rules. His "thou shalt not" is binding on all men. In other words "equality before the law" is a God-given—as well as Constitutional—mandate.

As policemen you have a great potential for good or evil. If you enforce the laws fairly and effectively you will protect the life and liberty of every one. If you misuse the power entrusted to you—or evade your responsibilities by failure to exercise the functions of your office—you will do great harm.



Commissioner of Police, New York City

Corruption does not consist merely of the "Judas" act—the selling out of honor and duty for the thirty pieces of silver—it also consists of not acting when there is a duty to act. You have a sworn duty to safeguard all the people by effectively enforcing the laws designed for the protection of all without regard to race, color, creed, poverty or wealth, or special privilege.

While every one is entitled to the full and equal protection of the laws—none is above the law. Least of all you: law enforcement officers. You must enforce the laws in accordance with "due process." It is not your function to punish any more than it is that of a mob to mete out punishment. That is the prerogative of the courts.

Remember always Abraham Lincoln's words: "Let us have faith that *right* makes might, and in that faith let us to the end dare to do our duty as we understand it."



by John Owen

Training London's Police Horses

crowds, the heavy traffic, and the music and color associated with ceremonial parades.

The first stage of training is designed to fit the horse, both in body and mind, for the heavy demands made of it later. A special set of harness is used which enables the training officer, on foot, to teach the horse to walk, trot, canter and gallop, as well as walking sideways or backwards.

Accustomed Slowly

The next phase begins about two months later. This is mounted training, with the object of bringing the horse under the complete control of its rider, and to accustom it gradually to conditions it will meet on actual duty.

This is, in many ways, a fascinating and challenging time for the training staff. They regard each horse individually and only when completely satisfied that it is ready for more advanced instruction is the animal allowed to continue.

Music, flags and rattles are used to prepare the horse for ceremonial duties. As an introduction to music, it is kept on the move at a walk while music is relayed through loudspeakers, the volume being gradually increased.

Instructors insist the greatest care must be taken to avoid frightening the horse. As each lesson is satisfactorily concluded, the animal is rewarded with a feed-tin of oats.

This feed-tin plays an important part when hal-trained animals are introduced to flags and rattles. The horses are brought into a large circle, facing inwards, toward an instructor who carries large hand flags so that they can be seen by each animal.

He does not wave them at first, and the horses are
(Continued on Page 14)



TWO HUNDRED YEARS AGO, when highwaymen and footpads robbed London travelers at pistol-point with the cry of "Stand and Deliver," the law officers, faced with the task of bringing safety to London's streets, mounted two men on horseback and sent them out to pursue the thieves. So successful were they that more horses were bought and today, though motor vehicles have replaced the stage coaches, the mounted policemen still play a vital and colorful role in the protection of the public.

Their duties now are concerned mainly with the control of large crowds, such as those which gather at State and ceremonial occasions, to precede and follow the Royal Procession, and traffic control. Nonetheless they regularly patrol the London streets ready to deal with any emergency, one mounted officer recently arresting a wanted man after a spectacular chase at full gallop along the busy roads.

"Worth Twelve on Foot"

Many regard a single mounted policeman as worth twelve on foot when dealing with unruly crowds, as they can see over the heads of gatherings and pinpoint where trouble is likely to start.

But, before a mounted officer is drafted to one of the police stables which ring Central London, both he and his horse have to pass a rigorous course of instruction and training at the Metropolitan Police Training Establishment at Imber Court, Thames Ditton, Surrey.

The men, all of whom must have been police officers on foot for at least two years, are taught how to groom and look after their mounts and receive twenty-two weeks training in horsemanship. Each year, every mounted policeman under the rank of Inspector must return for a fortnight's refresher course.

Most of the horses come from Yorkshire, a noted center where they are often bought straight from a farm. Usually it takes six months to train the animal to the high standards required.

The police horse must be quiet, responsive to its rider, and must remain unafraid of hostile or noisy

The car after most of the test shots had been fired.



A Practical Demonstration of Police Weapons

by Virgil Dye

Deputy Sheriff, Marshalltown, Iowa,

and Richard L. Holecomb

Chief, Bureau of Police Science, State University of Iowa

POICE OFFICERS often discuss just how good their guns are. Bullet types, weights, calibers and velocities get a good going over. The term "magnum" frequently enters into the conversation. Stories are told and retold of chases where a single shot disabled an automobile, or where fifty shots failed to stop a fleeing criminal car. Every officer has his favorite weapon and his favorite ammunition. His selection is based in part on the ballistics involved, but myths, isolated experiences and advertising appeals also contribute to his decision. Little study, outside of the laboratory, seems to have been done on the practical effectiveness of police weapons.

The major manufacturers of both arms and ammunition have done an excellent job on their products. There is no question about the reliability. Ballistics information is as accurate as modern methods of manufacturing and testing will allow. But what will these weapons actually do in the situations that confront law enforcement officers? Here the information is limited. The authors of this article wanted to do some tentative

1. Upper Rupture .357 Magnum.
2. Lower Dent .38 Special Police Load.
3. Shot gun slug, through body passing out through door post on opposite side.
4. 9 pellets from 00 Buck shot have destructive power of 9 separate .38 Special shots.
5. 7½ 12 gauge shot barely dent metal.
6. Glass was later shattered by .357 Magnum.
7. Damage to chrome trim around rear window was made by ricochet off rear glass by .38 Police Special, glass was not even cracked.



experimenting and at the same time to use these tests as a training device in the Peace Officers Short Courses offered at the State University of Iowa. These tests were conducted at the courses in 1958 and 1959.

It must be emphasized that these tests are only tentative in nature, that they were not conducted under highly controlled conditions. But at the same time, some facts that have not been generally recognized became apparent. It is hoped that this article will encourage similar tests and demonstrations so that law enforcement officers will know more about just what their guns will do.

One day of the short course was devoted to this project. The morning was spent in the classroom where lectures and demonstrations covered selection, care and safe handling of weapons. Reloading equipment was set up and bullets were cast and cases processed and reloaded. Members of the class participated in these projects. Instruction was given on firearms training programs.

The afternoon was spent on the range where a number of the usual demonstration tests were performed. Shots were fired from weapons ranging from a .22 pistol (for purposes of comparison) up to the .44 magnum revolver, and the .12 gauge riot gun. The test targets were one-inch pine boards, bars of soap and gallon cans of water. Fourteen one by eight inch pine

A rifled slug has just hit a gallon can filled with water. The can was sitting on the series of one-inch boards used to show penetration.



boards five feet long were nailed into a frame so that the individual boards were an inch apart. This frame was mounted on posts at a convenient shooting height. Figure 1 shows these boards and the effect of a .12 gauge rifled slug on a gallon can of water. The can was split at all of its seams and completely flattened out. Water sprayed for fifteen feet in all directions.

These demonstrations are interesting and show the comparative penetration and shocking power of the various calibers and loads, but law enforcement officers rarely shoot through pine boards or cans of water while apprehending criminals. To make the demonstration more practical and to learn more accurately what may happen in police situations, shots from all weapons were fired at different points on the automobiles from various angles. While the sheet metal on older model cars used in the tests may be a little heavier than that on newer cars, it is believed that similar results would be obtained if current models were used.

No careful, detailed analysis of the effects of the various weapons was made. For such comparisons to be valid, such variable factors as location of impact, type of material and angle of bullet travel would have to be controlled. Although these factors were not controlled in these tests, we offer the following general conclusions that may be of interest and help in formulating plans for stopping automobiles by gunfire.

1. It is useless to select a target point for effective penetration by looking at the outside of the car. Time and again, what appeared to be a clear, unprotected area on the outside of the trunk, for example, would be protected by a hinge or a heavy cross-member in the structure. One shot at the motor with a 30-06 rifle hit the steering column with no effect.

2. Because of the curved surfaces of modern automobiles—and the position of the shooter, shots will hit at an angle instead of squarely under practical conditions. Penetration and final accuracy of hitting the target is thus much more difficult. For example, if a door is hit at an angle, the bullet is usually deflected so that it runs along inside the door and hits a pillar.

3. The gas tank is well protected by the bumper, frame members and the trunk lid. While the tank is easily penetrated, it is difficult to hit. A heavy load and a metal piercing bullet will penetrate the bumper but loses most of its velocity.

4. The motor is well protected from the sides or rear. In the newer cars, it sits well down in the frame and usually two or more layers of metal must be penetrated.

5. Even when hit, there is no assurance that the motor block, or many of the accessories, will be damaged sufficiently to stop the car. Breaking the motor block with a magnum pistol is possible, but this will occur only rarely when the motor is in the car and not on a test stand.

6. The regular, round nosed, police .38 load may not even break through glass under some conditions. One of the test cars had a sloping back end; the window was of tempered glass instead of laminated. A shot placed directly in the center of this window did cause the glass to shatter but did not break through and none of the glass fell out. The bullet traveled up the glass, did considerable damage to the trim and ricocheted off.

(Continued on Next Page)

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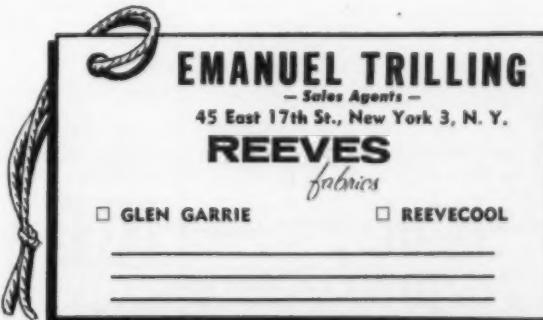


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Demonstration (From Page 7)

7. It must be noted that in all our tests, the shots were fired by an expert marksman, standing on firm ground, and aiming at a fixed target under conditions of good visibility. Under actual police conditions, in which shots might be fired from one moving vehicle at a moving target possibly in poor light, the results might be quite different. Obviously, accuracy would be less. While these conditions would not affect penetration, we are convinced that an expert marksman using any standard police weapon and load would need a great deal of luck to stop a fleeing automobile.

Shots from the various weapons were fired into mounted passenger car tires pumped up to the usual pressure. All of the weapons penetrated with no difficulty, even when the tires were hit at a rather flat angle. No blow-outs occurred and the holes were quite clean. None of these tires contained any of the semi-fluid materials designed to seal punctures; therefore, the effect of this material is not known. None of these tires were moving, so the effect of rotation is not known. It is believed that this would not be a factor since the surface of a tire on a car moving 60 mph is going only 88 feet per second while bullets travel at least ten times that fast. The tires of a moving vehicle are difficult to hit, but from our tests it appears that tires are easier to penetrate than many other parts of the car. If a tire is hit, this would be effective in stopping or slowing the vehicle, or causing the driver to lose control of it.

From a practical standpoint, the best single rule in shooting at automobiles seems to be—shoot the driver by firing directly at him. If you have the right to use deadly force, you have this right. If you do not have the right to use deadly force, attempts to stop the car by disabling it are so unpredictable that too great a hazard exists and this should not be attempted. Shooting only to frighten the driver so that he might stop should never be done, because of the hazard.

As a result of these tests, which were limited to the effect on vehicles, it appears that there is little value in carrying a pistol heavier than a .38 special. The magnum loads will not stop a car, except by chance. There is more to be gained by being able to shoot accurately and rapidly than by carrying a heavy weapon. At the same time, the effectiveness of the .12 gauge riot gun was impressive. Shocking power is very high, penetration is good, accuracy with the rifled slug is adequate and with buck-shot hits are almost certain under even conditions of poor visibility. This is a most effective police weapon that should be carried in every police car, not just kept neatly in a rack at the station.

These tests are certainly not complete or conclusive. At the same time, we were forced to revise much of our thinking regarding just how effective various police weapons are. This article was written in the hope that it would stimulate others to make similar tests. In spite of the fact that every officer carries a pistol, we all know too little about just what it will do, and too often we can't shoot it as well as we should.

END

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The Warning "Ticket" of Sayreville (N. J.)

by Neal Chevalier

Deputy Chief of Police



A LOOK AT THE MAP will show you that Sayreville is geographically the gateway to southern New Jersey and to the busy shore areas. As a result traffic is exceptionally heavy on the state highways and the Garden State Parkway in this area. Add to that the County and Borough roads which lead to these highways and you have a very busy community traffic-wise.

This vast area of traffic movement has been the scene of an excessive number of fatal accidents. It is estimated that our local police department has to handle at least one accident per day and on occasions the entire shift has to be occupied with traffic investigations and the making of reports. The State Police handle about the same number of accidents in Sayreville. It is estimated that during the year 1958 there were seven hundred accidents involving about fifteen hundred motor vehicles and about three thousand people.

Traffic Law Enforcement

The present method of enforcing traffic law which leads to the apprehension of traffic violators is the approved old method of arrest at the scene of the violations. Considering the many other duties which must be performed during any eight-hour shift it is

very likely that not enough time can be devoted to traffic law enforcement. At present all means used to reduce accidents and injuries have proven to be inadequate not only locally but throughout the state.

Bad Habits of Drivers

With over three million drivers in New Jersey, we have that many people with driving habits of their own. Very few of the drivers have received training under an experienced teacher; those who have can be considered safe and intelligent drivers. However, others who have learned by themselves or with the help of friends or relatives are not so fortunate since the teacher himself may not be a safe and intelligent operator of a motor vehicle. Through this lack of experienced training many motorists acquire bad habits which are compounded by them on the road through their own lack of driver education.

We have to consider also that in addition to bad driving habits many motorists are temperamental, impatient, overanxious, and inconsiderate. Combination of these and other mental factors renders such drivers accident-prone. It is held by authorities that the driver attitude is the single most significant factor in the reduction of traffic accidents and fatalities. Education in safe driving attitude and courtesy is our paramount need on the public highways.

The Warning Ticket and its Effect

The authority of a law enforcement officer to issue warnings, in addition to summonses, increases his potential for both education and enforcement. The effect of a warning on a driver can be both corrective and deterrent. There are many bad driving practices which can and often do cause serious accidents. A law enforcement officer with only the authority to issue a summons often hesitates to take such action when he observes a bad driving practice, because he has not secured sufficient evidence to convict the motorist of any violation beyond a reasonable doubt, as the law requires, or because he determines that the violation is minor and not an immediate threat to safety on the highway or street. By issuing a warning citation, the officer can stress to the driver the specific bad driving practice and its possible dangerous consequences.

As an example, a driver approaches a stop sign and fails to come to a complete halt. He had made reasonable observation to his right and left, and no other vehicles are approaching the intersection. While the law has been technically violated, the issuance of a warning here, with an explanation by the issuing officer that the practice can result in a careless habit leading to accidents, may appear to the officer to have the best possible effect on the driver. If the officer ignores the occurrence, the driver may assume that the practice was proper and legal. If, on the other hand, he issues a summons, the driver may fail to realize the potential

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seriousness of his bad driving practice. The ability to issue a warning citation would vastly increase, therefore, the number of contacts between trained law enforcement officers and the driving public with every indication of bringing greater safety to our highways.

The increase in contacts between law enforcement officers and drivers, which a warning citation system would provide, can, in many instances, lead to discovery of other serious violations, some criminal in nature. Enforcement of revocation of license and detection of contraband goods and concealed weapons is

substantially increased by this system.

In dealing with equipment violations, not of a serious nature, such as a defective tail light or crack in the windshield, a warning system would have particular advantages. A warning is issued requiring repair of the defect within a specified time; if the defect is not corrected, a summons can then issue or auxiliary administrative remedy be instituted. This system assures that the defect is speedily corrected and the vehicle is put in good operating condition and is not a continuing potential threat to highway safety.

A warning serves to educate such drivers and to instill an attitude of cooperation and responsibility, with an understanding of the terrible risks to person and property in the careless operation of motor vehicles.

The warning procedure supplements the regular traffic law enforcement procedure based upon the issuance of a summons, but does not conflict with it.

To Whom Warnings Are Issued

Warnings are issued in all cases where an infraction of the law is observed by the policemen to a minor degree which under normal circumstances led to a reprimand to the driver and issuance of a summons. Into this category fall some of the following acts: a driver passes a stop sign with extreme caution with no other vehicles nearing the intersection; one car accidents where police cannot prove a *prima facie* case; driver fails to start stopping his vehicle when amber light flashes to slow down for red light; failure in good faith to yield right of way due to misunderstanding on the part of both drivers; failure to give proper hand or mechanical signals; in other cases where policemen are of the opinion that no violation can be fully substantiated in court; and all persons who are involved in motor vehicles accidents wherein no summons is issued.

It is the goal of the police department to invite to its Traffic Safety Program all persons who show need of safety driving education.

Program in Action

Chief of Police Harry A. Olsen has placed the author in charge of the warning program. Motorists who receive a warning ticket are invited to come to the V.F.W. Home in Sayreville to participate in the program. The *(Continued on Page 21)*

THIS IS A WARNING

NO COURT ACTION WILL RESULT

As a result of receiving this warning you are requested to attend the Traffic Safety School conducted by the Sayreville Police Department in its program to reduce motor vehicle accidents and pedestrian casualties by bringing traffic safety education to the motorists.

You are invited to attend said program to be held at the V. F. W. Post Home on Dolan Street, Sayreville,

N. J., on Wednesday, the..... day of

....., 19....., at 7:30 P.M.

(REVERSE SIDE)

THE BOROUGH OF SAYREVILLE		File Copy			
321					
DEPARTMENT OF POLICE					
WARNING					
PRINT		Vehicle Owner () Yes () NO			
Name	FIRST	MIDDLE	LAST		
Street					
City-State					
D. O. B.	AGE	SEX	WT.	HT.	OCCUPATION
D. L. No.	REG. No.	STATE			
Make.	Year	Body Type	Color		
ROAD SURFACE: (Dry Wet Snow Ice)	WEATHER: (Clear Rain Snow Fog)				
OFFENSE: TITLE 39: Chap. Sec.					
MUNICIPALITY	COUNTY	HIGHWAY			
On the 19..... at M.	(Day of week)	(Date)	(Month)		
DESCRIBE					
RE-INSPECTION REQUIRED: () YES () NO					
OTHER ACTION: (Other Traffic Offenses)					
Signature.....	(Officer's Identification)	Badge No.			
THE BOROUGH OF SAYREVILLE					
321					
DEPARTMENT OF POLICE					
WARNING					
Date.....					
You are hereby WARNED for violating a safety principle					
the offense being.....					
(DESCRIBE)					
REG. No.	RE-INSPECTION REQUIRED:	() YES	() NO		
A duplicate of this WARNING is filed with the Police Department of The Borough of Sayreville.					
SIGNATURE..... No.....					
SEE REVERSE SIDE					



... More Than Money"

EDITOR'S NOTE: During the past seven years we have published a great variety of articles covering many subjects. The following article appeared in our March, 1953 issue. At that time the author was a Captain in the Dallas Police Department. The article was written in response to a question that we had asked in our first issue, "Why is a policeman?" Many years have passed and we feel this article should be republished because it best describes the feelings a policeman should have for his profession.

by Inspector Paul V. Ashenhurst
Dallas, (Texas) Police Department



BEFORE I ANSWER this question may I make it plain that men are not policemen for the reason that it is the best paying job they can find. Men may accept any job during a period of depression, but a depression does not last for the entire span of a policeman's work life; and though at the time a policeman's salary may be the best he can do financially, it is true in almost every case that a few months or at the most a few years brings him job offers which promise more money, better hours, better working conditions and more rapid advancement. This has definitely been true for more than ten years.

Since the day of Pearl Harbor almost any policeman anywhere has had many such opportunities and has seen men working by his side leave the ranks of law enforcement and in another field rapidly rise to positions paying more money than any man on the force including the Chief. The high standards required for employment on any first class police department today are such that an applicant who can meet them can usually walk a block down the street and find a job which most people would consider had more to offer.

A few months after V J Day I entered the headquarters of my department to discuss my return to duty. I was a patrolman on leave to the armed forces. The greater part of my working years were in the past. I was middle aged. I had been gone for five years. I found many things different than they had been when I left. Several officers with whom I had worked had advanced three or four grades during my absence. Men I had left as Patrolmen and Sergeants were among the higher ranking officers of the Department. Of course much of this had been caused by the absence of large numbers of men from the Department, but the same radical changes had occurred in business.

Why was I coming back after five years absence? Was it because I could do no better than a Patrolman's pay if I sought a change? Could I not find a place in private industry?

I had been successful in my military service. I was a graduate of two of the finest army schools. I was wearing the crossed rifles and silver leaves of a Lieutenant Colonel of Infantry. I had years of experience as a commanding officer, years in which I had administered successfully a unit twice as large as the organization to which I was returning, where I would take the lowest rank. My friends, many of them, advised me to look elsewhere. I did not have to look—I had already been approached.

I had been offered a job paying about twice what I would draw as a Patrolman. This job meant much more money, a beautifully furnished office, forty hours work week, daytime with regular hours and all holidays. In the Department I would return to a dingy basement, overcrowded, poor facilities, subjected to any kind of assignment. I might work inside a crowded, cluttered, uncomfortable office, or I might work outside in the cold or rain or heat. I would work six days every week. Holidays would simply mean more hours and harder work. I would work many hours overtime without pay. My tour of duty would change every month.

Why was I returning to work as a Policeman? I was ready to start life anew. It would not entail a breaking from the force, from old friends. That had occurred

when I entered the service. So it was not a question of taking the plunge into something new which was deterring me. My life for five years had been a constant change, a change in duty, responsibility, assignment, rank, location and even in the persons with whom I was associated. No, it was not that. Security had something to do with it. There was the pension I could draw in my later years. Knowledge of the job was a factor. And yet—the comfort, the work hours, the opportunity to spend more time with my family from whom I had been separated for so long, were all valid reasons for making the change. Why did I turn down this opportunity? Because I wanted to be a policeman! It is a satisfying job. It affords opportunities found nowhere else, opportunities to do good, to set a kid on the straight path, to help someone who has seen better times.

Why be a policeman? Perhaps this question could be answered by asking a few. It is hard to look inside, under the blue shirt with the brass buttons, and write down on a piece of paper what is inside of you.

Did you ever ride the darkened streets of the city you love knowing that the thousands of people safely asleep in those hundreds of homes depend upon you?

Did you ever find and soothe a frightened, bewildered, lost child, after hours of searching, even as you, too, were despairing of success? Did you see the mother as she snatched this child to her breast? Did you ever feel that surge of confidence and pride as you heard a worried, tired but relieved voice say "It's all right now, the police are here?" Did you ever stand in the midst of violence, cool and calm, and gather the situation into your confident, capable hands, assuming command where "big wheels" of industry or business were lost, confused and powerless to act?

Have you felt the sense of adventure and confidence as you began your duty tour at midnight knowing that anything might happen and that you could handle it when it came?

Did you ever ride hour after hour through the silent night with a man at your side knowing he would stand with you, regardless of consequences, even death, when the going got tough?

Did you ever hear the Captain at roll call read a routine memorandum asking for blood transfusions for a policeman's wife or kid and see fifty blue clad arms thrust upward to volunteer?

Have you ever watched a long line of men, big men, courageous men, as they moved slowly down the aisle of a funeral home to take a last look at a comrade who had met death, in harness, for you? Did you see the unashamed tears course down their cheeks?

Why be a Policeman? There are so many reasons—the frightened people who need help, the man's job to do, the comradeship, the pride in the blue uniform, the vision of the future.

Vision of the future? Yes, you see down the years ahead of you a profession, an honored profession which you helped to make, properly paid, properly equipped, and respected by all. You see smartly uniformed, eager, alert young men of courage answering at roll call as they close ranks with the good elements of our society in the service of our people. You see advances in crime

(Continued on Next Page)



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LIFE!**

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More Than Money (From Page 13)
prevention, crime detection, personnel selection and training. You feel your part in this young, vigorous profession which is forging so rapidly to the front.

Perhaps you are sentimental but you look back over the years and you gaze steadfastly into the future, and you hear your little granddaughter say, "I'm glad my gran is a policeman; he's not afraid of anything."

So you lift up your chin and you look out over your city, the city you have served for a quarter of a century, and you say to yourself, "I'm glad, too, that I'm a policeman." And you feel fully repaid. For there are still men who know that honor, and courage, and loyalty and faithfulness, mean . . . more than money. **END**

London Horses (From Page 5)
encouraged to stand still while an assistant gives each a feed of oats.

No Fear of Revolver

As they become used to this, the flags are taken closer until eventually each horse will feed contentedly while the flags are waved vigorously right under his nose. Later the feed-tin is dispensed with, the horse remaining unmoved as the flags are brushed across his face.

The same system is used when rattles replace the flags, and a well-trained horse shows no fear at a revolver fired six feet in front of him.

The final stage of training sees the introduction of bands, avenues of flags and bunting and men dressed in colored uniforms carrying arms to represent the conditions of a processional route.

During instruction on crowd control, the rider is taught how to move his horse laterally into a group of people, as the safest way of dispersing crowds. The animal walks gently but irresistibly sideways to disperse even the most determined people.

In its last weeks at Mounted Branch Headquarters, each horse is sent out on quiet roads nearby to accustom it to patrol conditions. Only when the training staff are sure of its reliability under all conditions is it permitted to be sent into Central London.

Fifteen Miles "Beat"

A mounted officer, during his eight hour tour of duty, patrols on his horse for three or three and a half hours, when he will often be responsible for up to fifteen miles of "beat." The rest of his day is taken up with grooming, stable work and cleaning his kit.

From his Colonial saddle hang two wallets. They contain a first aid kit, should he be called upon to deal with a road accident, a short truncheon, a horse's feed bag and a water-proof saddle-cover. These wallets have evolved from the saddle-holsters in which the mounted policeman of nearly two centuries ago carried his long barrelled pistols.

For many years the Sovereign has honored the Mounted Branch by choosing a police horse to ride on ceremonial occasions, the Queen's present mount being a chestnut, with four white socks, called "Imperial."

Thus the mounted police receive Royal recognition of their excellence. To the people of London it is a tribute to a fine body of men who can look with pride on their part in the keeping of the Queen's Peace. **END**

1960 CHEVROLET POLICE CARS

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handle police duty
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Once you get your hands on one of Chevrolet's three police specials for '60, you're bossing a dyed-in-the-wool *police car*. For this one you can fit out in exactly the right trim for your needs.

To start with, all three—the rugged Biscayne 2- and 4-Door Sedans and the versatile Brookwood 4-Door Wagon—offer traditional Chevrolet stamina and economy, now refined to new degrees

of perfection. There's new silence in Chevy's going, thanks to newly designed, thicker body mountings (among other things). New space inside, too—even a smaller driveshaft tunnel.

You take it from there, choosing from a long list of options and custom features that tailor your Chevy to virtually any police duty. Take your pick from seven high-stepping V8's (including a 170-h.p. Economy Turbo-Fire V8 that gets up to 10% greater mileage) and Chevy's famous Hi-Thrift 6 . . . five smooth transmissions . . . such special police options as heavy-duty sintered-metallic brakes, heavy-duty shock

absorbers and stabilizer bar—in fact, a whole package of special features for rugged police duty. Spend a few minutes talking over this superlative '60 Chevrolet with your dealer soon!

And while you're there, see and drive the 108"-wheelbase Corvair. Chances are your law enforcement fleet has a place for this economical, highly maneuverable compact car, such as in urban patrolling and special detective work. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.



chief
★ of ★
police cars



The durable, agile Biscayne 2-Door Sedan. The Brookwood 4-Door 6-Passenger Wagon—a natural for emergency ambulance and special-equipment work as well as day-to-day patrolling.

For further information circle #6 on Readers Service Card



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is equipped with
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At speeds of more than 100 m.p.h., these guardians of the law, will fearlessly and relentlessly pursue a criminal and bring him to justice... yet these same men can administer oxygen and first aid to an accident or heart victim with the skill of an expert. Every car in this patrol* is equipped with a Scott Demand Inhalator, a complete First-Aid Kit and a ground blanket on which to lay the accident victim.

The Scott Demand Inhalator is ideal for accident service. It is fast, simple and easy to operate. Oxygen flows only at rate required by patient. The ability to sustain life until the ambulance arrives should be the goal of every city, county and state law enforcement body.

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* Erie County Sheriff Dept.
Robert A. Glasser, Sheriff



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Model as illustrated \$161.90.



(Continued from Page 3)

A. Yes, the person shall be guilty of a misdemeanor.

Q. Does this act apply to both the father and the mother?

A. Yes.

Q. In case of bastard child, who determines the father?

A. Testimony of witnesses.

The Brothel

Q. What is a bawdy house?

A. A bawdy house is a place kept for the purpose of fornication. A brothel. A house or dwelling maintained for the convenience and resort of persons desiring unlawful sexual connection.

Q. In raiding a bawdy house, what classification of offenders would you find?

A. The proprietor (frequently a woman), the inmates (prostitutes), and the frequenters.

Q. What class of crime is it to maintain a bawdy house?

A. A misdemeanor.

Q. What is a prostitute?

A. A woman who sells her body sexually. One who indiscriminately consorts with men for hire, with any man seeking it.

Q. How may bawdy houses be proceeded against?

A. Either by injunction proceedings, brought by the D.A. or the Attorney General, as a nuisance, and by indictment against the owner for the criminal offense of maintaining a bawdy house.

Q. What is the difference between a house of assignation and a bawdy house?

A. A bawdy house is where women are kept for prostitution, while a house of assignation is one where appointments are made to meet prostitutes, not living on the premises, but still for the purpose of indiscriminate consorting with men. In other words, a "call house" or a "bad house."

Q. What is a paver or street walker?

A. A prostitute who solicits her business on the streets and has no regular place of business, but will consort with men for pay, at any satisfactory place.

Q. A man rents a dwelling to the keeper of a bawdy house, knowingly. What action can be taken against him?

A. He may be prosecuted for knowingly renting any house for such a purpose.

Q. A man places a girl in a bawdy house for the purpose of practicing prostitution and accepts portions of the money she earns from her work. What would be the charge placed against him?

A. Pandering.

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For further information circle #23 on Readers Service Card



C. Robert Love



The Security Officer's Notebook

PLANT SECURITY AND FIRE SAFETY

BECAUSE THE PLANT GUARD is a non-productive member of the plant population he is quite often singled out by plant managers for additional duties beyond his routine security patrols. Most security managers go along with reasonable requests. However, when the additional duties cut down the guard's efficiency as a security officer, the end result is a combination janitor-guard-watchman-maintenance man with no particular degree of efficiency demonstrated in any one area. Where government security programs are involved most cognizant security agencies frown on the assignments of non-security functions to security guards.

There is one area where the security force can function and improve plant security and that is in the field of industrial safety. In many respects the interests of the plant protection program and the plant safety program are parallel. For this reason it is not uncommon in industry to find that the security and safety programs are administered by one department. If they are not in the same department, the security guard can perform a real service for the safety department. The plant guard-force generally covers every area in the plant

during the conduct of routine security patrols. Without expending a great deal of extra effort the plant security guard can help the safety department locate hazardous conditions.

One of the most important areas in safety in which the guard should be completely trained is fire safety. The guard should know the location of all fire equipment in the plant and should be carefully instructed on all methods of reporting fires. This may seem elementary. However, it is a point sometimes taken for granted until the emergency arises and then precious time is lost.

Any fireman will stress the importance of prompt reporting of fires. In fire fighting the first few minutes are the most important. Emergency fire numbers should be listed on or by every phone. Night phones should be marked and their locations noted by the guards. If pull boxes are located in or near the plant, the guard should not only be instructed in their use but should also know what boxes are to be used. He should know the location of all fire doors, exits, power disconnects and important valves and switches. His rounds should

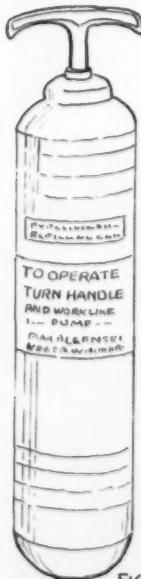


FIG. 1.



FIG. 2.

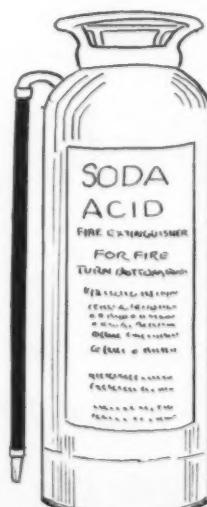


FIG. 3.

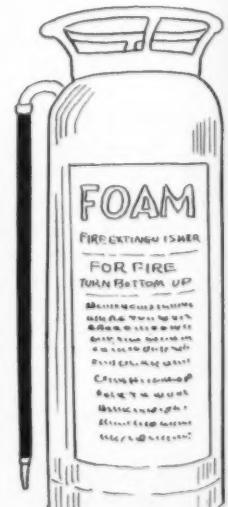


FIG. 4.

be scheduled so that they do not take more than forty minutes each.

Some companies operate what are called proprietary alarm systems. These are systems owned by the company and all alarms are received in a company operated control station. Pull boxes can be installed on these systems and they ring in only in the company's control station.

Another type of pull box is installed generally in conjunction with a sprinkler alarm system. This type of box can send a signal to the local fire department although quite often the signal goes to a central station operated by the alarm company who in turn notifies the local fire department.

The third and most common pull box is the one found in urban areas where the alarm goes to the local fire department. Where plants are located near fire district borders, care should be taken to determine that the pull boxes in the vicinity of the plant are in the same district in which the plant is located.

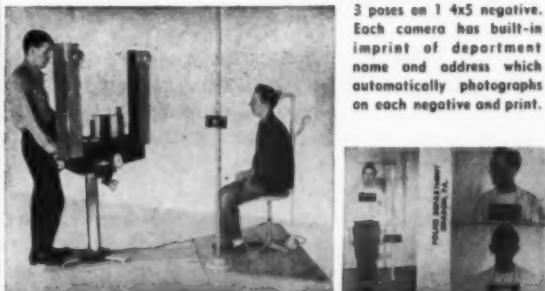
One of the most critical periods during the day from an industrial fire prevention standpoint is the first hour or two after the last regular shift. Guards should be particularly alert for fire hazards during this period and the first round conducted after the employees leave the plant should be a fire prevention tour. He should look for soldering irons left plugged in, electric typewriters and office equipment left on, electrical equipment, floor-heaters, etc. that shouldn't be on. Gas jets, torches, etc. should be checked. If any welding or cutting has been done on the previous shift, particularly just before the shift ends, the security office should be notified as to the location of the work and thorough inspection of the area made to discover any smoldering sparks. Areas immediately beneath the spot where the welding was done should be examined, particularly down stairwells or floor openings where welding sparks can drop.

Security guards should be completely familiar with the company's fire protection equipment. The types of

(Continued on Next Page)



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For further information circle #224 on Readers Service Card

Plant Security (From Page 19)
equipment commonly found in industrial plants are as follows.

Portable Fire Extinguishers

There are quite a number of different types of portable extinguishers and it is not uncommon to find several types in the same plant. Among the most common are these:

Vaporizing Liquid (see fig. 1)

Most effective on electrical fires. The most common type operates by turning the handle to unlock and pumping the liquid stream. Some plants have eliminated this extinguisher because of the hazard involved with carbon tetrachloride which is used as the extinguishent. Care should be taken when used in confined, unventilated spaces.

Carbon Dioxide (CO₂) (see fig. 2)

Can be used on electrical fires, incipient fires in paper, waste, etc. Also on small flammable liquid fires. Comes with a swivel type horn as illustrated or with a short hose on the horn. The horn should be aimed at the near edge of the fire as close as possible and swept slowly back and forth in a "mopping up" motion. Caution should be used when attacking a flammable liquid fire as there is generally a flare-up when the CO₂ first hits the flame. In wood or waste fires, it should be followed up with water to cool any embers left glowing.

Soda and Acid (see fig. 3)

Can be used on paper, wood, waste, etc. To operate it must be tipped upside down. The soda and acid mix

and react chemically to produce CO₂ which in turn expels the water in which the soda is mixed. It should not be used on electrical or flammable liquid fires.

Foam (see fig. 4)

Is best used on flammable liquids in tanks and vats. It should not be used on electrical fires. Like the soda and acid extinguisher, it must be turned upside down to operate. It emits a brownish blanket of foam (CO₂ bubbles).

Dry Chemical (see fig. 5)

Can be used on flammable liquid, electrical, wood, trash fires. It is a very effective extinguisher and is particularly good when used against flammable liquid fires. If used on wood fires, it should be followed up with water to cool any remaining embers. The powder is non toxic (primarily bicarbonate of soda).

Water Type (See fig. 6)

There are several water type extinguishers, from the open tank stirrup pump to the newer, pressurized water extinguisher. In the latter, the water is expelled by air pressure which can be charged by a service station air hose.

One thing the plant guard must realize about fire extinguishers is that all fire extinguishers are first aid fire appliances and are designed only to handle incipient fires and are not a substitute for assistance from the fire department. The fire department should always be called in all fires. Because extinguishers are effective only in the first few minutes of most fires, it is extremely important that they be kept in good operating condition and kept in readily accessible locations. The plant

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guard should make a quick visual check of all fire extinguishers as he makes his rounds and make sure that they are not blocked by equipment or material.

Fire Hydrants and Hoses

Many plants have hydrants similar to hydrants found in municipalities. The guard should note the availability of spanner wrenches if they are needed and check frequently to note that the hose is in good condition and that the nozzle is intact. Hoses and hydrants should be kept free and clear for ready use.

Sprinkler Systems

The most effective fire protection system for a plant is a complete sprinkler system with an automatic alarm. Since fire underwriters specify the number of sprinkler heads that may operate on a single system, large plants may have several separate systems, each controlled by its own valve. Except during repair or when replacing heads after a fire has been extinguished, sprinkler valves should always be open. They should be visually inspected every time the guard passes by and hand tested frequently to make sure that they are in operating condition. Two types of sprinkler valves the guard should recognize are:

Post Indicator Valve (see fig. 7)

A window on this valve has a sign reading "open" when the system is open and "shut" when the valve is closed. If a valve reads shut, that information should be reported immediately. The guard should not undertake opening the valve until it has been determined why the valve was closed.

Rising Stem Gate Valve (see fig. 8)

On this valve, the valve is open when the stem is up and visible. A fine wire with a lead seal on the open position will also help the guard know when a valve has been tampered with.

It is most imperative that the plant guard knows exactly what portion of the plant is covered by each sprinkler system and this information should be clearly marked on each valve. Emergency procedures should be worked out in detail so that the guard knows pre-

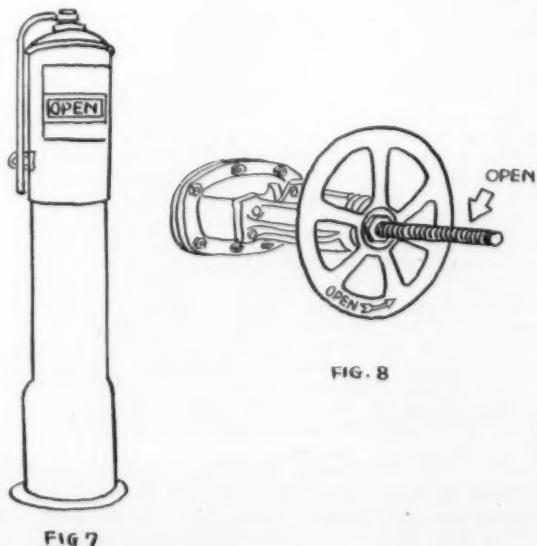


FIG. 8

cisely how to handle a water flow situation. While it is important to shut off the water before serious water damage takes place, it is more important that the water not be shut off until a competent observer has determined that the fire is out. According to figures released by the National Fire Prevention Association, about 10% of the failures of sprinkler systems in manufacturing plants can be attributed to premature shutdown.

A further discussion, acquainting the plant guard with automatic sprinkler systems, will follow in future articles.

END

Sayreville (From Page 11)

following are part of the program schedule which is held on a monthly basis:

1. Showing of Traffic Accident films with emphasis on driver attitudes and traffic violations.
2. The role of police in traffic law enforcement with emphasis on traffic accidents and investigations.
3. Review of motor vehicle and traffic law by Motor Vehicle Inspector emphasizing also the mental attitude of drivers.
4. Lecture on a specialized feature as it affects the motorists.
5. Time permitting demonstrations will be made of the drunkometer with subject and of radar.

The program is conducted by the Police Department of the Borough of Sayreville.

END

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"According to Law..."

Edited by Judge Irving B. Zeichner
Law Editor



Statute Too Vague

Defendant was charged with a violation of the vehicle and traffic law in that he failed to turn off the motor and remove the ignition key upon leaving his automobile. The police officer, upon seeing this, drove the vehicle to the police station. The defendant was arrested when he arrived to claim his vehicle.

The statute in question provides that "No person driving or in charge of a motor vehicle shall permit it to stand unattended without first stopping the engine, locking the ignition, removing the key, and effectively setting the brake thereon and, when standing upon any grade, turning the front wheels to the curb or side of the highway."

Defendant contended that the statute was unconstitutional because the part which required "removing the key" was vague and uncertain.

The Steuben County Court of New York held the statute to be uncon-

stitutional. It said that the general rules of the criminal law apply to traffic infractions and the citizen is entitled to an unequivocal warning of the rule to be obeyed.

"Has therefore, the questioned section clearly indicated what it is a man's duty to avoid, and, does one know in advance, whether his act is criminal or not?

"It is asserted that the section merely states (after referring to locking the ignition) 'removing the key,' but goes no further; that a removal of the key from the ignition and placing it on the seat of the vehicle, or placing it on the dashboard, or on the floor thereof, or hanging it from the steering wheel, would not, according to the language of the section, be a violation. The only direction is that the key shall be removed from the ignition.

"We must take the law as written, not as intended or hoped for. If it were intended (in order to lessen the likelihood of theft) to require the operator to completely remove the key from the vehicle, the statute should have so stated.

"There must be a standard which is definite, unequivocal and not lacking in clarity. Without such a standard, our penal laws and statutes are too vague and indefinite for enforcement."

Evidence Of Speed

Defendant was convicted of speeding on the New York State Thruway, and fined \$10. On appeal, the proof of speed in its entirety was contained in the following excerpts from the testimony of the arresting officer:

(Page 9)

"Q. Would you tell the court what transpired from the time you first observed this vehicle? A. I saw him proceeding north, and I observed that he was traveling at a speed that I would say was over 70 miles per hour and I followed him north for approximately two miles."

(Page 12)

"Q. How fast was the defendant going that day while you were observing him? A. 70 miles an hour."

There was no testimony as to what the trooper's speedometer read at any time during the two miles that he followed the defendant, nor was there any other evidence of speed as measured by any mechanical device, tested or untested, or as testified to by any other person on behalf of the prosecution.

The Orange County Court of New York set aside the conviction and held that the People had not met the

burden of proof which was cast on them to establish the speed of the defendant beyond a reasonable doubt.

"Assuming the trooper to have been established as an expert for the purposes of estimating speed, his opinion testimony, without more, is not adequate to support a conviction of violating a speed ordinance.

"It is important to public respect for the enforcement of the speed laws that the speed of a motorist shall be checked by speedometer or radar before he can be convicted of speeding."

Accessory Before The Fact

On January 17, 1950, there was a robbery at 165 Prince Street, Boston, the premises of Brink's, Incorporated, a company engaged in the transportation of money and valuables. The amount taken was \$1,219,000.

Defendant McGinnis, one of the eight defendants, was charged with being an accessory before the fact. He appealed from his conviction on the ground that the statute of limitations had run on his part in the crime. He contended that the "offense is completed on the date on which the accessory last incites, procures, aids, counsels, hires, and commands the principal to commit the substantive offense, and not on the date when the substantive offense was committed."

The Supreme Judicial Court of Massachusetts affirmed the conviction:

"One becomes an accessory before the fact by the commission of a felony by another whom he has urged to commit it. McGinnis became an accessory by the commission of the several crimes by the respective principals on January 17, 1950. This was within the six year statute of limitations."

Reasonable Cause

Officer Harrison Harwick was told by an informer, Emma Brown, that her source of narcotics was Amos Jones. At his request, Emma Brown called Jones' girl friend, Daisy, who said she would try to contact him. This call was made in Harwick's presence. He checked the number and found it listed in the name of Daisy Mims.

Daisy called back and said that Jones would bring some narcotics to Emma's apartment about noon. Emma Brown described Jones to the officer. He waited until he saw a cab drive up and a colored man alight and ring the bell.

The officer then went to the second floor landing, identified himself, arrested Jones and searched him. He (Continued on Page 27)

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National Police Officers Association of America

The Law Enforcement Digest

Gerald S. Arenberg
Executive Secretary

Annual Awards Dinner

OVER three hundred law enforcement officers and guests gathered at the American Legion Hall, Dubuque, Iowa, September 19, 1959 to attend the Fourth Annual Directors Dinner and Third Annual Medal of Merit for Valor Awards presentation.

Frank J. Schira, president, NPOAA, spoke to the assembled members reviewing the activities of the association during the last year. He announced that the triannual convention of members would be held in New York City during the month of September, 1961. Thereafter, meetings would be held every two years along with elections of all national officers. This suggestion first arose at the first convention in Washington, D. C. in 1958. However, legal counsel advised that such action could only be taken at a general convention in the form of an amendment to the by-laws at this time (1961). State delegates attending the affair will select the new president and the several national vice presidents.

The Port Charlotte Retirement

Plan was also given considerable attention now that most of the building funds have been set aside by the General Development Corporation. This was credited to the far reaching success of membership participation with over one thousand police officers and their families purchasing homesites for their retirement future.

President Schira pointed out to the assembled group that the NPOAA is meeting its goals first announced in 1955 when it was granted a charter. Policemen at best retire after twenty or twenty-five years of service. They need a place where they would be among their own people, and which would be economically suitable. This Police Retirement Program is a reality. Now, for the first time in the history of the law enforcement profession, an area with a private club, golf course, and center for police activities, is available. This benefit is available to members who are and want to live a long full life. Schira pointed out that this far exceeds any kind of death benefit that a widow would want. It's a project that is a living monument to law enforcement officers everywhere.

Awards Made

Chief John D. De Baltz, chairman, national awards committee, presented the two annual citations of the Medal of Merit. The bravery citation went to Sheriff Marvin Bruhn, Clinton, Iowa, who captured in hand-to-hand combat a berserk man armed with a shotgun, who had kept a posse of officers



Lt. Gov. Edward J. McManus is presented an "Honorary Colonels" commission of Kentucky at the annual NPOAA Dinner. This certificate was mailed to NPOAA by Gov. Chandler as he was not able to attend. Exec. Secy. Gerald Arenberg made the presentation.

at bay for over eight hours. The Colt Patent Firearms Company, of Hartford, Conn., donated a presentation weapon, a .357 Magnum Revolver, engraved with his name and date of presentation.

Chief De Baltz made the presentation for Service to the Law Enforcement Profession for 1959 to Dr. Lois L. Higgins, the world's best known woman police officer. The award was based upon her fight against the pornographic material being sold to our young people which is corrupting their manners, morals and is helping to increase teen-age crime. Dr. Higgins is Director, Illinois Crime Prevention

(Continued on Page 26)



Medal of Merit for Valor

John Krecisman, State Secretary for Michigan, presents Medal of Merit for Valor to Mrs. Arlo Slagle, widow of Patrolman Arlo Slagle of Ludington, Mich., who was slain while making an arrest. Watching the presentation are Diane and Duane Slagle, daughter and son of the officer, Mayor Rathskir, and members of the Ludington Police Department.



Awards were made at the annual dinner. L. to R. Chief John D. DeBaltz, Award Chairman; Sheriff Marvin Bruhn, Valor Award winner; Lt. Gov. Edward J. McManus, State of Iowa; Dr. Lois L. Higgins, Service Award winner and President Frank J. Schira, NPOAA.



Handbook For Investigating Homicide

by Edward A. Dieckmann, Sr. (Ret.)



Chapter XI—Using the Five Senses

BEFORE CLUES in a case become really valuable they serve as suggestions and indications about what happened and who did it! You'll learn to use every one of your five senses to dig out these clues—seeing, hearing, smelling, feeling—even taste—all can be in there pitching for you to a marked degree.

Modern criminology distinguishes between the establishment of evidential facts, the investigation of their meaning, and weighing their value as proof. Let's take a case that will point out this meaning pretty well.

It was an accidental death case at first—a man found dead in a burned out room. The investigator, by putting "questions" to the physical evidence, decided that this was an arson attempt to cover up a murder. He was so right. Autopsy disclosed that the victim's blood, taken from his lungs, didn't show a trace of carbon monoxide which would have had to be present if he'd done any breathing during the fire.

That shows how important it is to find out all there is to know about the facts of a case by calling upon every bit of assistance you can get—no matter how fantastic or superfluous it may appear at the moment. This case will point this up even further:

A man and his girl went out for a drive along the Coast Highway. An accident happened—the car slammed into a row of abutments on a curve. The young woman was thrown out and received fatal injuries from which she died almost at once. Now the "superfluous clue" in this affair was the presence of two blood spatters on the trunk of the car. Now, that couldn't have very well happened through the fall from the car, so the investigators tied into it with the result that they charged the man with murder. He later admitted that he'd induced his sweetheart to get out of the car, killed her behind the car, and simulated the accident. The blood spatters—the tremendous trifles—were the essential clue in this case.

You know those blood spatters were "interrogated."

So when you're trying to dig out suspects in any murder case try these "questions" on the crime scene:

1. Could the deceased have been killed by someone in the act of committing some other crime—like burglary, robbery, etc.?
2. Could the victim have been mistaken for some other person—taking into consideration the location of the crime and other pointers?

3. Does the way the murder was committed indicate that the killer knew all about the premises?

4. Or is it indicated that the killer had regular access to the house—room—office, etc.?

5. What articles were taken from the premises; what persons knew about the existence of those articles, and if they were hidden, knew the hiding place?

6. How does the manner in which the victim was killed indicate the motive—such as sexual, etc.?

7. Does the method of the murder indicate the physical strength of the killer?

8. Does it appear that more than one person committed the crime?

9. Does the manner of the crime indicate whether the murderer was a man or a woman—or both?

10. Does the type of weapon used—shears, knife, gun, ice pick, kind of blunt instrument used, etc.—indicate to you the sex or occupation or intelligence of the killer?

11. Check the answers to the above question. Now, do those answers indicate a known suspect or suspects?

12. If the answer to the above is yes—then who of the suspects, having access to the scene of the crime at the time it was committed, could have killed the victim?

Another thing you must never forget: a murderer may not have his mark—his fingerprints, footprints—on the scene, but it is very possible that he just might carry away traces of the crime scene on his clothing, his hands, his shoes—traces that might very well remain there for hours, days—even weeks.

In Chapter III of this series (April, 1959) the statement was made that observation was one of the arts—what you see and how much you remember about it is something that can be cultivated if you try. Here is a good experiment to try:

You're downtown shopping—your wife is in a department store trying to stretch a policeman's pay as far as she can buying new school outfits for the kids. You're bored stiff waiting for her to return to your parked car. Get out—go to one of the big display windows and look at it. Give yourself about three or four minutes for observation. Look at the window's contents following the suggestion given in Chapter III—going around toward the right. Then turn away and make a list of what you observed. Go back and check the inventory you made. Do this little stunt at every opportunity. You'll probably



be surprised how accurate you become—and in such a small space of time.

The observation capabilities you develop will give you a big assist when the time comes to question the witnesses in your case—most of all when you question suspects. Of course, there is a different line of approach in the two instances.

With either eye witnesses or suspects, it is imperative that you know what you're talking about—that when a witness describes something, you can flash the picture you received through your mind and make an instant comparison. There are many, many times when a suspect may describe some detail on the murder scene that could only be known to the deceased and the murderer. That will certainly tie him in tightly if you know about it too—and if you've recognized the value of that knowledge. This object could be such a slight bit of physical evidence as a coffee pot rigged for a half dozen cups of strong brew when you know that this particular victim's habit was to prepare only two cups of weak coffee for herself.

Another thing, when talking with a potential suspect, do not let him know that you are aware of his lies until you've snagged him tightly in many of them. When you slam it to him—right off the bat—that he's lied, there is a chance that he may be able to explain that one lie away. But, he'll have a great deal of trouble wiggling out of a number of them. So, let him ramble on—even encourage him a little.

Another thing to keep in mind:

While interrogating a suspect, don't betray to him a mistaken opinion you may have formed, and don't talk to him—trying to pin him down—about anything but an absolute fact. In other words, don't let him know that you are on a fishing expedition.

And, above all other things, don't lie to him—and don't boast to him about how much you know about his actions in connection with the case. In the majority of cases it is best to draw things out of your suspect in

a manner that is governed by the man's mental make-up, his previous criminal record, and his reaction to your method of approach.

One thing you should do—without exception—is to keep your suspect separate from all other prisoners. See that he has a cell all alone. A man under arrest for suspicion of murder is a desperate man, guilty or innocent. He's in a situation of a man fighting for his very life, and he is looking for an "out." He'll listen to other prisoners hoping for some hint how he can beat the rap—if he is guilty.

Another point—never answer any of the suspect's questions about the crime. Just be firm and make him understand that he is the one who does the answering. It's not a bad idea to put it to him bluntly—something like this:

"You're not under oath. You can refuse to answer my questions if you wish, but I strongly advise you not to tell any lies. Once you have lied, and we prove your statement is a lie, you'll have no one but yourself to thank if you come under suspicion of something a lot worse than lying."

Let him digest that awhile. It works very well with some types of individuals. Right here a caution: the same approach doesn't work the same way with different types of people. You've got to know your man in order to interrogate him properly. Sometimes it's a good policy to talk with him a long time—getting to know him—how his brain operates—how his thoughts motivate his statements—watching his mannerisms. You can do this swiftly once in a while. One thing for sure—whatever you do, however you go about it, this is a spot where patience is indeed a virtue. That and perseverance, unexcitability, plus a thorough knowledge of your case up to this point, are essential.

Once more, because it is so important: don't lie to your suspect. It'll be just as hard for you to wiggle out of a string of lies as it would be for your suspect to explain his lies away in a satisfactory manner. END

Awards (From Page 23)

Bureau, a member of the Chicago Police Department, and President of the International Association of Police—

men. Dubuque, Charles Kuntzinger, Chief of Police Hugh Callahan, and LaVerne Schlitz, City Manager, Matt Landers, Frank Regilio, Chief W. C. Cliff, Jack Helander were among the many officers attending.

Patrolmen Gene Digman, Carl Van Der Meulen, and Robert Gulick were co-chairmen of the dinner and are officers in the State Lodge.

Police Scholarship

One police officer each year will be awarded a scholarship of one thousand dollars to attend a police school. This offer was announced by Mr. Philip Weck, Editor, Official Detective Magazine, to any police officer who can

qualify. In a letter to the National Police Officers Association of America, Mr. Weck suggested that our members who may be interested should send in their names. Officers should (1) be able to obtain leave from their departments to attend a police school; (2) be in a position where the advance training will greatly aid in the department's fight against crime; (3) have the necessary background to enter a university police course.

A letter giving complete details, personal history, and your picture should be mailed to the NPOAA. Your letter will be forwarded by this
(Continued on Next Page)



National Police Officers Association of America

The Law Enforcement Digest

Gerald S. Arenberg
Executive Secretary

Citations Awarded to Skokie (Ill.) Police Department



NPOAA's Executive Secretary Gerald S. Arenberg (in uniform) is shown presenting a Citation Award to Chief of Police Hennig for the department as Sgt. Childs, Det. Milz, Lt. Filipowski, Lt. Caulfield, Mayor Reiter and Manager Marsh look on. The Awards were based on the solving of a murder case within a few hours after it occurred.

Scholarships . . . (From Page 25)

association as a nominee. Judges who will make the decision as to who shall be awarded this scholarship are Chief George Otlewis, of the Chicago Police Department, and Sheriff Hugh Anderson, Hutchison County, Texas. The NPOAA urges interested members to write as the 1960 award winner will be selected early this coming year from candidates on file.

Insurance Claim Promptly Paid

While on vacation at Superior, Wisconsin, Lt. Frank Hajek, Berwyn Police Department, Illinois, was killed in an automobile accident September 14, 1959. He was Chief of Detectives for the City of Berwyn and a policeman for nineteen years.

His wife, Adeline, was presented a check from the All American Life & Casualty Company for \$1250.00 which was the combined coverage of both his accident and life policies. Present at the ceremonies were his brother, Captain James Hajek, and other police officials.

Payment was made within twenty-four hours of filing the claim with the underwriter.

APPLICATION FOR MEMBERSHIP—NATIONAL POLICE OFFICERS ASSOCIATION OF AMERICA

(Please Print)

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Beneficiary _____	Relationship _____	Immediate Superior's Name _____

— MEMBERSHIP OATH —

I do solemnly swear (or affirm) that I will bear true faith and allegiance to the United States of America. Further, that I have never engaged in disloyal or subversive activities against the United States of America. I fully understand that I must be a full-time law enforcement officer to be eligible for membership.

Recommended By _____

Signature of Applicant

Enclose Annual Dues of \$5.00 and Return to Exec. Secy., National Police Officers Association of America,
100 W. Chicago Ave., Chicago 10, Ill.

IMPORTANT — ALLOW 30 DAYS FOR APPLICATION PROCESSING

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According to Law (From Page 22) found some white powder. He took it to the detective bureau desk, inventoried it, and brought it to the crime laboratory. The lab returned a report, People's exhibit 1, which stated the chemist's analysis of the powder as containing 26.6 grains of heroin.

On appeal for conviction of unlawful possession of a narcotic drug, the defendant maintained that the evidence should have been suppressed because the arrest and search were conducted without warrant. The Supreme Court of Illinois affirmed the Judgment and held the officer was justified in acting without warrant.

"It is clear that neither the constitution of the United States nor of Illinois forbids all searches and seizures. The prohibition is only against unreasonable searches and does not extend to immunity from search upon a lawful arrest. It has long been recognized that arresting officers have a right to search the person of the one arrested as an incident to a valid arrest. An arrest without a warrant is lawful if a criminal offense has in fact been committed and the arresting officer has reasonable grounds for believing that the person arrested committed it.

"Reasonable cause" or "reasonable grounds" in such a situation, means something less than evidence which would result in conviction. There is a large difference between that which is required to prove guilt in a criminal case and that which is required to show probable cause for arrest or search, as well as the tribunals which determine them, and therefore a like difference in the quanta and modes of proof required to establish them. Probable cause exists where the facts and circumstances within the arresting officer's knowledge and of which he had reasonably trustworthy information are sufficient in themselves to warrant a man of reasonable caution in the belief that an offense has been or is being committed."

Inference Of Guilt

Two detectives in the New Haven police department were driving north on a little-traveled road on the outskirts of town. As they approached an automobile parked on the opposite side of the road and headed south, the defendant and one Williams, who were standing on the far side of the automobile, ducked out of sight. The hood of the car was raised. As the officers passed, the defendant stood up and threw a shiny object into the marshy area to his right.

Search of this area produced a hypodermic needle in the base of which a rolled-up strip of United States currency was fitted; a black metal bottle cap with a crystalline substance adhering to the inside; and a white metal bottle cap, sides pinched together, containing a small quantity of liquid and a small piece of cotton saturated with liquid. Each cap had

adhesive paper affixed to the base, and the bottom of each was charred. On the floor in the rear of the car, the officers found a matchbox containing matches and a small piece of sponge. Affixed to the box by a thumbtack was a charred wooden stirrer. A salt shaker containing salt and a folded piece of wax paper containing a powder were in the glove compartment of the car.

Williams owned the car; he told the officers that he had had motor trouble and could not start it. The car started readily when the officers tested it.

Toxicological examination disclosed that the crystalline substance in the black cap was morphine and quinine, that the liquid in the other cap and the saturated cotton contained morphine, and that the powder in the wax paper was quinine. Narcotics addicts mix quinine with morphine to give it bulk, and heat the mixture with water in a bottle cap to liquefy it. The bottle cap or "pot" is held over an open flame by a "pot holder." The stirrer attached to the matchbox serves the latter purpose. Lighted matches provide heat to the "pot" and cause charring of it and the "holder." A piece of cotton or sponge is used as a strainer in drawing the liquefied mixture into the hypodermic needle for injection into the addict, and the strip of currency paper makes a snug non-absorbent fitting between the needle of an eyedropper syringe.

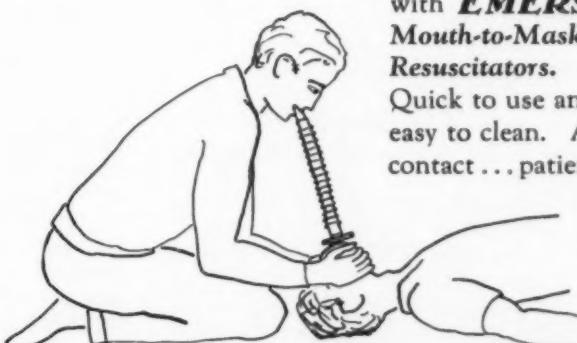
Convicted of violating the Uniform State Narcotic Drug Act, the defendant filed a motion for rehearing on the ground that the evidence did not sustain a finding of guilty. The Supreme Court of Errors of Connecticut denied the motion. It felt that in view of the expert testimony concerning clandestine preparation and use of narcotics a reasonable inference could be drawn that the defendant and Williams were preparing to administer a narcotic drug to themselves when the police appeared.

"Great weight must be given the action of the trial court upon a motion to set a verdict aside, and all reasonable presumptions resolved in support of the ruling. The state made out a *prima facie* case against the defendant, although it was based on circumstantial evidence, including the inferences which the jury could draw from the actions of the defendant and his companion at the scene. This in turn gave rise to the further inference which could be drawn from the defendant's failure to testify in explanation."

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The Investigator and The Crime Laboratory

by Richard O. Arthur



An In-Service Training Aid

Chapter VI Hitting the Target

THE FASTEST WAY of deciding if a person is really informed on a subject is to determine if he uses correct terminology. One is reminded of the ninety-day-wonder ensign who was bawling out a new sailor for referring to the aircraft carrier as a "boat" instead of a "ship." The ensign exclaimed, "Why, if the captain heard you say 'boat' he would get so mad he would throw you out of one of these little round windows!"

No crime laboratory section has so many misused terms as does the unit dealing with guns. For instance, this is generally referred to by many as the "ballistics department." If ballistics is the only concern of this section, it will be of extremely little value to a law enforcement agency.

In the correct use of the word, *ballistics* is divided into two parts. Interior ballistics is concerned with what goes on inside the gun. Exterior ballistics is concerned with what happens to the bullet after it leaves the barrel, for example, its speed and trajectory. Obviously, what a law enforcement agency is interested in is much more than just the mechanical, chemical, and physical aspects concerning the firing of a gun.

What the police are really interested in are the answers to the following questions:¹

1. What is the caliber of the crime pistol?
2. Is the crime pistol a semi-automatic, automatic, or revolver?
3. What make and model is the pistol?
4. Is the crime bullet and/or crime shell from this suspected pistol?

Since the answers to these questions go far beyond the correct use of the word "ballistics," most laboratories now refer to this unit as the "firearms identification section."

The confusion of terminology does not stop at the name of this section; it extends throughout the entire subject of guns. For example, we usually hear about loading a gun with "bullets," yet the word that should be used is "cartridges." Another very common example of incorrect usage is referring to a certain type of pistol as an "automatic," when the person is really talking about a "semi-automatic."

In order to better understand the work of the firearms identification section, let us quickly review not only correct word usage but also what happens when a pistol is fired.

1. Cartridge: what is fired in a pistol, rifle, or machine gun. It consists of two parts:

¹ For simplification, only pistols are considered in the first part of this chapter. However, most of what is stated regarding pistols also applies to rifles and machine guns.

A. Bullet: what comes out the front of the barrel. It can also be properly referred to as the *slug* or *projectile*.

B. Shell: the part which contains the primer and powder. It is also correctly referred to as the *cartridge case* or simply the *case*.

2. Pistol: a gun that is usually fired when held in one hand. There are four main types of pistols:

A. Single-shot: must be reloaded after each firing.

B. Revolving: usually referred to as a "revolver." This weapon has a revolving cylinder with chambers that are loaded separately. A cartridge is only fired when its chamber is in line with the barrel.

C. Semi-automatic: its cartridges are held in a magazine clip, which is usually inserted in the grip. After each firing the gases not only serve to propel the bullet out of the barrel but also serve to force back the slide. The *extractor*, which is part of the slide, carries the shell (case) along with it as the slide travels to the rear.

Suddenly the shell comes in contact with a small metal projection, the *ejector*, which causes the shell to flip out of the pistol. A spring in the magazine pushes the new cartridge up so that the slide, in returning to its original position by means of its own spring, drives the cartridge into the correct position for firing. Firing of this cartridge is only accomplished by releasing the trigger and again pulling it.

Since the trigger must be released and pulled before each firing, these pistols are termed semi-automatic.

D. Automatic: operates the same as the semi-automatic except that once the trigger is pulled, it continues to fire as long as the trigger is held in its rear position. Only when the trigger is released does the firing stop.

Questions the Expert Answers

1. What Is the Caliber of the Crime Pistol?

A. From the Shell (Case)

Determining the pistol's caliber from the shell is the easiest task the firearms identification expert faces. Yet, even here he exercises care, since occasionally a cartridge will be fired in a pistol of a larger caliber. Nevertheless, even in these cases the shell's caliber itself is readily determined by merely looking at the size of the shell and/or noting the markings stamped on it by the manufacturer.

B. From the Bullet (Slug, Projectile)

Usually the expert can immediately determine the pistol's caliber by merely looking at the size of the bullet. If the bullet has split into two or more pieces,

it will be weighed, since the weight will indicate its caliber.

2. Is the Crime Pistol a Semi-Automatic, Automatic, or Revolver?

A. From the Shell

When a shell is found at the crime scene, this in itself indicates a semi-automatic or automatic is probably involved, since their shells are ejected immediately after firing. It is very unusual for a criminal to stop whatever he is doing in order to pick up these shells so they will not fall into the hands of the police.

Since revolver shells are retained in the cylinder after firing, in police work they are usually only found where the shooter was forced to reload. Reloading a revolver is a time-consuming procedure and very seldom occurs at a crime scene.

However, the differentiation between the semi-automatic and revolver shells is readily made by closely observing the shell in question. If a shell is from a semi-automatic or automatic, it will usually contain both extractor and ejector marks.

Since both the extractor and ejector marks are placed on the shell after firing, they usually appear as bright scratches. Revolver shells do not have either of these marks.

3. What Make and Model is the Pistol?

A. From the Shell

If you only possess the shell, it is difficult, but not impossible, for the expert to answer this question. If fired in a semi-automatic or automatic, there are usually four marks on the shell—the firing-pin, breech-block, extractor, and ejector markings.

The firing-pin mark on the base of the shell is measured so as to determine its width, since width does vary according to the preference of the pistol manufacturer.

The breech-block markings are of assistance since the last step in the manufacturing of the block usually consists of it being hand filed. The filing marks can either be concentric circles, straight lines, or irregular. Whichever way these marks are is usually constant for any given manufacturer. By studying the breech-block impressions on a shell, the expert can readily determine which of the three methods was used on the pistol firing this particular shell.

(An impression of the breech-block is made on the shell as it slams rearward into the block as the bullet begins its forward flight. In fact, the force of the shell going backwards is the same as the force propelling the bullet forward.)

Most manufacturers have their extractor and ejector arranged in a relationship to each other that is peculiar to that company. By studying these two marks and their location, the expert is greatly helped in coming to a determination as to the pistol's make and model number.

It is impossible to tell the pistol's make from a revolver shell. There will be only two marks that could possibly be of any help—the firing-pin and breech-block. These are just not enough for the expert to come to any conclusions as to the pistol's make and model number.

B. From the Bullet

The study of a recovered bullet involves the most common examination conducted by the expert. In order to answer the question, "What is the make and model of the pistol used to fire this bullet?", there are six things the expert must determine.

The first of these six is figuring the bullet's caliber, which has already been discussed. The other five all involve the pistol's rifling. Before we discuss these five points of difference, let's review the reason for rifling.

A bullet fired in an unrifled barrel usually will travel end-over-end after leaving the barrel. When a bullet does this, not only is its speed and distance reduced but, more importantly, its accuracy greatly decreases.

Rifling is nothing more than continuous spiralling lines cut into the inside of a barrel. These lines are referred to as **grooves**, while the sections that are uncut and therefore are between the grooves are called **lands**.

As a bullet travels through the barrel it follows these grooves just as a railroad train follows its track. Since these grooves are spiral, the bullet begins spiralling and in so doing develops a spin.

A bullet is like a football, both in shape and action. If a football is thrown end-over-end, seldom will it hit its target. A football spinning as it goes through the air is much more likely to go where the passer wants it to go.

A bullet—the front half of the cartridge—will not

(Continued on Page 30)

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Interrogation (From Page 29)

drop down through a barrel of its own caliber since the barrel has a smaller land diameter than the bullet. The bullet will only travel through the barrel if it is being pushed by a tremendous force. The expanding gases, resulting from the burning of the shell powder, provide not only the necessary force to get the bullet through the barrel but also enough to send it speeding towards the target.

The reason for having the barrel smaller is to assure that the rifling will affect the bullet by giving it no choice but to follow the rifling as it travels through the barrel. Once it leaves the rifled barrel, the bullet tends to retain this spin as does the football thrown by a good passer.

Each manufacturer has his own ideas as to what constitutes the best rifling, that is, the most effective way to get the bullet spinning. These different ideas involve:

1. The number of grooves
2. Whether these grooves should spiral left or right as you sight down the barrel
3. The width of these grooves
4. The depth of these grooves
5. The groove angle, also referred to as the pitch. This angle will determine if the groove makes several revolutions inside the barrel, or just one revolution, or not even a complete revolution.

Because there is yet no agreement about the answers to any of these five variables, with each new pistol every manufacturer decides what they should be.

These variations are called the barrel's class characteristics. Because the barrel is smaller than the bullet, the bullet has to be softer than the barrel or else the barrel would be smashed. Since the barrel is both smaller and harder than the bullet, the barrel will imprint its class characteristics upon the fired bullet.

Assuming that a fired bullet is found in good condition, the expert should be able to determine from it the following things about the barrel it was fired through: the number of grooves, whether the grooves spiral to the left or right, the width and depth of the grooves, and the groove angle.

Once he knows this information, the expert is usually able to determine both the make and model number of the pistol.

Note: The barrel grooves appear on the bullet as that part which is raised and least affected by its passage through the barrel. This is termed the bullet land, since it does rise above the bullet grooves which are dug into it by the barrel's lands. That is, the barrel grooves become the bullet lands and the barrel lands become the bullet grooves. Another point to remember is that a barrel will always have the same number of lands as it does grooves.

4. Is the Crime Bullet and/or Crime Shell from this Suspected Pistol?

This is the most important question asked the firearms identification expert. His answer almost always determines exactly how the remainder of the investigation is to be conducted.

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If he reports that this particular pistol is the one used to commit the crime, future investigation will be directed against that suspect believed to have possessed the gun at the time of the crime. The hunt for the crime gun immediately comes to a halt.

If the expert reports that this is not the gun used, the investigators have two choices. They can either clear this suspect or direct the investigation towards tying this suspect to another gun while the hunt for the crime pistol is resumed.

To answer the question, "Is this the crime gun?", the expert first quickly inspects the suspected pistol. He determines if the class characteristics of its bullets and/or shells are similar to the class characteristics of the crime bullet and/or crime shell.

That is, he first answers question three as to the make and model of the crime gun. If the suspected pistol could not possibly be the crime gun, no further examination will be made as far as this particular crime is concerned.

Assuming that the suspected pistol has not been eliminated at this preliminary step, the expert then fires the pistol. He now has obtained laboratory test samples (specimens) of both the bullet and shell.

Next, using a comparison microscope he very carefully studies the individual characteristics of the laboratory test samples. These are compared to the individual characteristics appearing upon the crime bullet and/or crime shell.

These individual characteristics are nothing more than a series of scratches appearing upon every bullet and shell. A bullet's scratches are dug into it by the

barrel's lands and grooves. On a revolver shell they are placed there by the inside of the chamber, the firing-pin, and the breech-block. A semi-automatic or automatic shell gets its individual characteristic scratches from the magazine clip, firing-pin, breech-block, extractor, and ejector.

If some of these scratches appear on both the test sample and crime evidence in the same order and are the same distance from each other, we have a situation somewhat similar to fingerprints.

Although fingerprints have not yet been discussed, we know that no two are the same. Therefore, if a finger-print of a suspect is the same as a print found at the crime scene, we assume that suspect was there, since the chance that the ridges of two fingers are the same is, for our purposes, impossible.

So it is with scratches on a bullet or shell. Naturally, the more points of duplication between the test sample and crime evidence, the more definite it is that this is the crime gun.

One might wonder if two pistols made one after another would not produce the same scratches upon their bullets and shells. To answer this question, one must first realize that even the smoothest appearing metallic surface consists of thousands of miniature "mountains" and "valleys." If this surface comes in contact with a softer metal, the "mountains" will scratch the softer metal.

These "mountains" are originally formed during the manufacturing process by the cutting and polishing tools. But, not only is the tool shaping the gun part,

(Continued on Page 42)

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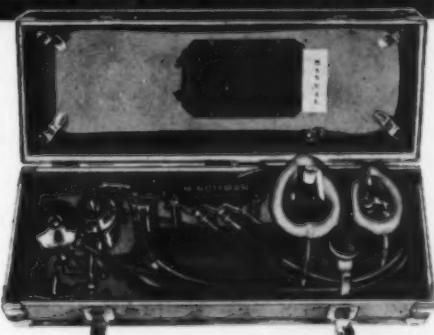
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by Lewis Winner
Communications Consultant



Electronic Traffic Control in Washington, D.C.

WITH MOTOR-VEHICLE REGISTRATIONS expected to reach a spectacular high of 70,416,000 for 1959—3.1 per cent more than 1958—traffic control is becoming an increasingly complex problem. Compounding the headache in this growth parade of not only cars, but pedestrians, too, are the difficulties encountered in traffic-signal coordination—setting up an interconnection plan that can meet all density conditions.

The basic reason—for an orderly interconnection of signals—is to move traffic volume over a given street with greater safety for both drivers and pedestrians, such control being adjustable to traffic patterns at different times of the day such as inbound rush (morning), normal (mid-day)

and outbound rush (evening). If the local controllers at various intersections are connected to a central point, the light cycles can be switched remotely to allow for different traffic conditions at different times of the day. And, just as important is the fact that interconnection enables successive lights on a street to be synchronized to keep traffic moving.

Until recently, the only method of interconnection available has been by means of cable. The laying of such cabling underground can be quite an expensive operation. And, coupled with the burdensome, costly tearing-up of streets and repaving, complementary to any cable installation, budgets can rise so that the project can become quite a municipal dilemma, particularly

if outlying sections—involving miles of linkage—are involved.

To resolve this knotty problem in Washington, D. C., where a city-wide modernization program is underway, a radio-system approach* has been adopted. In its present form, it provides interconnection of 127 intersections and by next year another 75 will be included.

Basically, the control station in this new technique performs two functions: First, it synchronizes traffic signals, and second, it changes the timing of the light cycles themselves at different times of the day to accommodate changing traffic patterns. Through intensive traffic surveys, it has been found possible to predict closely the volume of traffic on major streets at various times of the day. This information has been utilized to work up a detailed program of light cycles for each interconnected traffic signal in the city. During the morning rush hours, for example, a main artery receives a long green period and side streets, short green periods. During the day, this ratio is changed to accommodate the more equal main street versus side-street traffic volume. In the evening, it is changed again to favor the outgoing rush-hour traffic. There is even a special program for emergency or special conditions, such as a snow storm.

One might ask how efficient is a preset or pre-timed system, as used in Washington. The effectiveness depends upon the city involved. Continuous traffic studies in the District have shown that traffic patterns are in the main unchanging and therefore predictable. Therefore, a centrally-controlled coordinated pre-timed system with a capacity for a large number of cycle changes will move traffic far

(Continued on Page 34)



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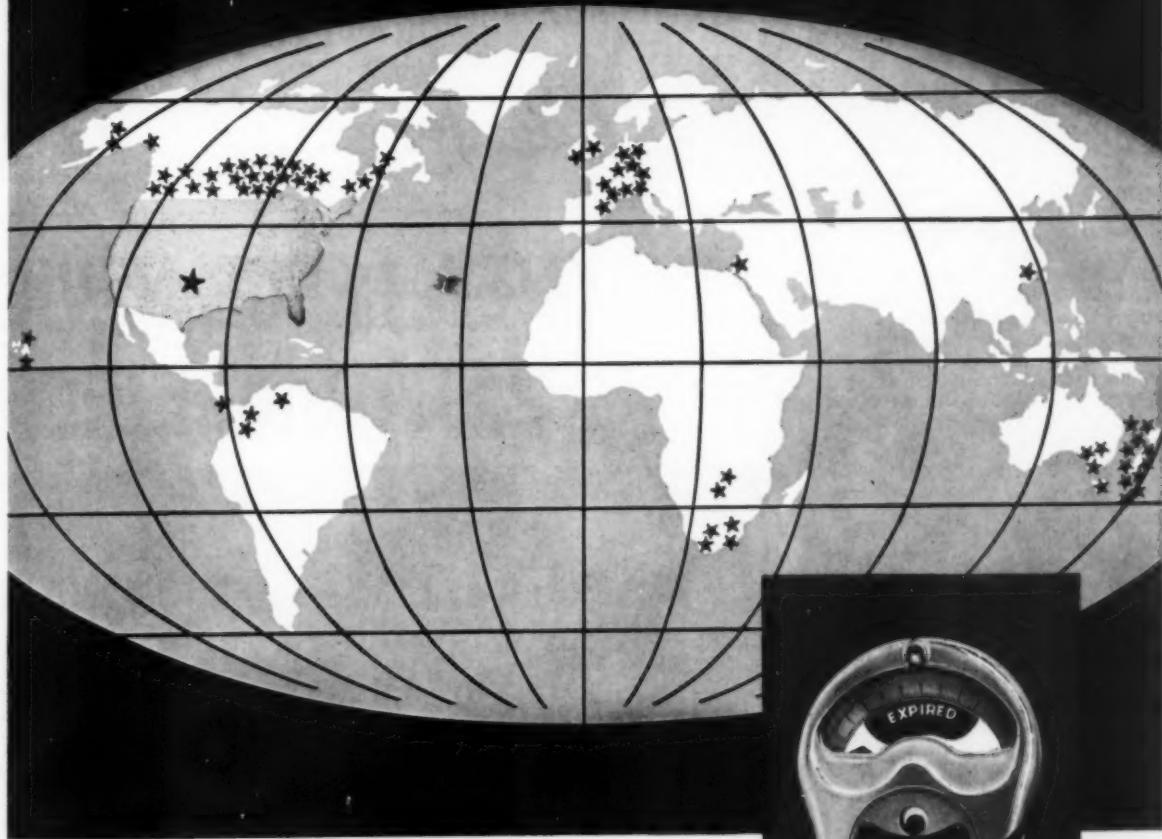


Traffic signal controller box with its radar-like antenna which picks up radio signals that synchronize and control Washington, D. C., traffic signals.

(Motorola)

Law and Order

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For further information circle #144 on Readers Service Card

November, 1959

Traffic Control . . (From Page 32) more efficiently than isolated signalized intersections operating at random.

The workings of such a system can be changed easily at any time. At the central station in Washington are manual controls which enable manual override of any automatically-selected function change. This accommodates any special traffic condition. Several different kinds of weekly traffic control programs can be placed on a single tape and the specific kind of program selected by pressing a button, i.e., (1) normal weekly program, (2) rain, (3) snow and ice, etc. For example, if it starts to snow, a predetermined traffic program for this condition can be instantly placed in effect by pressing a "snow-program" button on the master controller. Should it be necessary to change the fixed program, such changes can be made in the tape. Other changes can be made at various intersection receiver-decoder units by interchanging plug-in tone selection components. System expansion is possible by the addition of more receiver-decoders at remaining unconnected intersections.

Specifically, the Washington system



Closeup of the programmer with its punched tape which serves to actuate oscillator circuits in the coder. These oscillators generate a combination of six audio tones—selector tones—which range in frequency from 100 to 1,080 cycles per second. (Motorola)

features a master clock and programmer, coder, two master-dial cabinets and a control-display panel. This is located at a master-control station in the Department of Highways building at 13th and 14th, E and G Streets, S.E. The radio transmitter has been located near the Deal Junior High School.

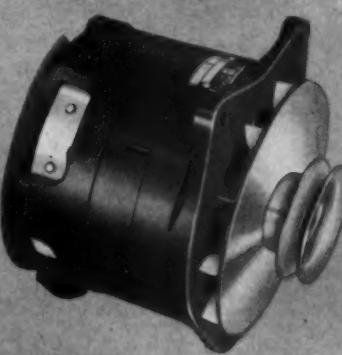
The clock and programmer is a high-speed, high-capacity punched tape readout device. Signal-cycle variations, determined by careful traffic study, are transferred to code on a reel of punched paper tape. Punching is by a sensing device called a reader; that is, information is developed by perfora-

tions on a paper tape one inch wide. This width allows for eight channels. The arrangement in the reader provides sensing of a frame of ten lines, giving simultaneous readout of eighty bits, eliminating the need for complex memory storage systems.

Closing a step circuit causes the reader to advance one full frame. The advance or step rate of the reader is determined by the pulse rate of a command signal.

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tacts. Multiple contacts per hole assure reliability of readout.

As the tape is fed through the readout device, the specific cycles for intersections for certain periods of time are selected. This information is translated into audio tone codes which are generated by a coder. These code tones are transmitted by the radio base station to various intersections. The time cycles in effect are shown on a display panel, which also includes the manual control buttons for emergency use.

Independent of the function-change tone codes and the workings of the master programmer are the generation

of the synchronization codes by the master time cycle units. These tone codes are transmitted to all intersections continuously.

At each radio-interconnected intersection is a receiver-decoder unit that receives the various tone signals. The tones are decoded and applied to the regular local signal controller, causing the desired effect-time change and synchronization.

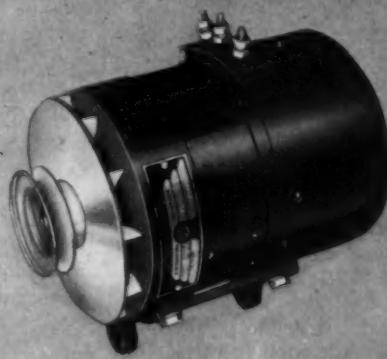
In commenting on the virtues of an air system, traffic authorities in Washington said that radio is shaping up to be the tool that can meet pressing needs of expansion and build a firm foundation for the future. **END**

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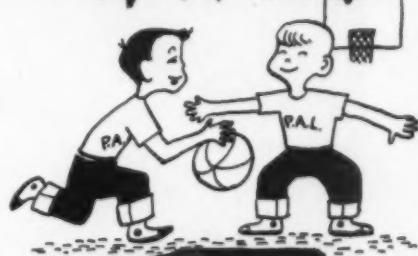
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POLAND SPRINGS, MAINE. The New England Association of Chiefs of Police held their 34th Annual Conference at the beautiful Poland Springs House in Poland Springs, Maine. The three day conference began on October 11th and was attended by 428 police chiefs, their wives, and town officials.

Members from the six state area began to arrive Sunday afternoon

led by Communist thinking, sees a better way of life—the American Way. At the conclusion of the picture he repeats a quotation from William Penn, "Men must choose to be governed by God or they condemn themselves to be governed by tyrants."

The President's Address

The Monday morning meeting got under way with the traditional



and were soon renewing old acquaintances and catching up on the news in the different communities.

At eight in the evening, a showing of "The New American" was held in the Convention Hall. This hour and a half moving picture is billed as "Youth's Own Answer To Delinquency." Superintendent John A. Lyddy of the Bridgeport (Conn.) Police Department introduced Mr. Andrew Smith who had brought the picture for this special showing. Mr. Smith explained how the picture had come into being and that it had also been shown at the IACP Conference in New York.

The New American is a picture, written, acted, directed and produced by teen-agers. It is a result of the experiences of young people at the World Assembly for Moral Re-Armament at Mackinac Island, Mich.

This film depicts what happens to teen-agers when they pause in their quest for excitement and let God assume a place in their lives. One of the young people, being

call to order by President Roland C. Amnott, Chief of Police, Lewiston, Maine. After the invocation and committee reports, the president's address stressed the fine cooperation he had received during his term from the members. A point of interest was Chief Amnott's comments on the tax burden that has been placed on the citizens of almost every community. With the increase in population everywhere, a great need for new and enlarged schools has taken a big portion of the tax dollar. This is a situation about which a town can do nothing. The only trimming that can be made in the budget is on services such as police. To help keep the tax rate down, these services are "cut to the bone." President Amnott called the people who subscribe to this action "penny wise and pound foolish."

He also took occasion to congratulate Chief Philip Purcell, of Newton, Mass., on his election as sixth vice president of the International Association Chiefs of Police.

New F.C.C. Regulations

A short address was given by

Captain Edward Tierney, Cambridge (Mass.) Police Department. He represented the New England Police Radio League and much of his talk concerned the new F. C. C. regulations which would be effective in 1963. The substance was a warning to those buying radio equipment now—be sure it is adaptable to the narrow band which will be the required specifications in 1963. He also spoke about the new transistor police radios, often making heavy duty generating equipment no longer necessary. Capt. Tierney made mention of the many city managers who have applied for a municipal communication wavelength so that police, fire, park, highway trucks and other services would emanate from a communication center. There is a question in the minds of the police whether this practice would be wise. Is it good to "let everyone know police business?"

Featured Speaker

The main address of the day was given by Dr. Richard Ford, Criminologist and Professor of Harvard Medical College. He is also Medical Examiner for Suffolk County, Boston, Mass.

Each year Dr. Ford visits the conference, bringing with him slides to illustrate his lecture. His theme is always the same: The importance of good investigative practices at any unusual death. Many "natural" deaths have been revealed as homicide by the sharp observations of an officer and the cooperation of a competent medical examiner. Dr. Ford presented several cases which clearly illustrated his point.

The Second Day

The first address on Tuesday was given by Richard H. Whittemore, Alcoholic Rehabilitation Counselor, State of Maine. The well filled convention hall is a tribute to the members of NEACP. Nothing is more discouraging to a speaker who has travelled many miles than to have many vacant seats as his audience.

Mr. Whittemore has a "conversational" delivery in speaking. One forgets he is listening to a speech and has the feeling that the man is just talking to you alone. Whittemore is a man dedicated to helping people understand the alcoholic. He said, "Alcoholism is a disease, one that

(Continued on Page 38)

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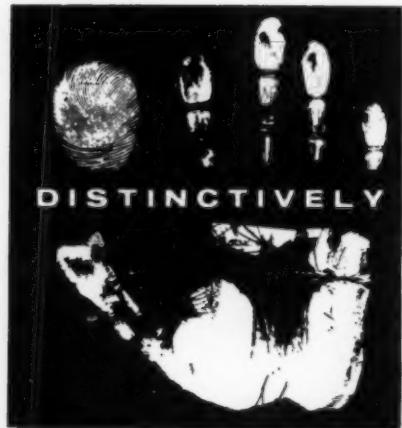
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NEACP (From Page 36) is a 'skeleton-in-the-closet' type of thing which families try to hide if a member is afflicted. It is a *total* disease because it is not only physical and mental, but spiritual as well."

He continued by stating that no one can change the alcoholic, he must do it himself. One can assist him by steering him in the right direction when he is ready to be helped.

Many people protect and "cover-up" for the alcoholic. Even when he has a job there are those who would protect him. "Perhaps in your own department" said Whittemore, "you have a man who drinks while on the job. Others may cover for him—but it does neither him nor your department any good. Have a talk with him and if possible, send him to a counsellor in your community."

Advances In Criminalistics

The second address of the morning was given by Dr. Briggs White, an assistant director of F. B. I. in Washington, D. C. Using colored slides which explained equipment at the F. B. I. Laboratory in Washington he showed instruments which diagnosed the flecks of paint found on a hit-and-run victim. These instruments are part of the electronic equipment used by the F. B. I. The information received from one instrument is recorded on an IBM card. The card is fed into another IBM machine which produces the make and year of the auto. He also showed an instrument which could separate the elements of soil or dirt.

Banquet

As in all conferences, the big climax was the banquet. Toastmaster for the occasion was the Honorable Thomas E. Delehanty, Justice of the Superior Court, State of Maine. An address was given by Leo Laughlin, Special Agent in Charge, F.B.I. Boston, Mass. The featured speaker of the evening was George "Birdie" Tebbetts, former Red Sox's catcher, manager of Cincinnati, and now with the Milwaukee organization.

The traditional passing of the gavel from the out-going president to the new one was part of the banquet evening. Chief Roland C. Amrott (Lewiston, Me.) greeted the new president Supt. of Police John A. Lyddy (Bridgeport, Conn.).

An interesting sidelight was the
(Continued on Page 45)

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Chiefly Chatter

Paul B. Beckwith

Chief of Police, Hartford, Conn.

by James M. Owens

WHEN HE WAS NAMED Chief of Police ten months ago, Paul B. Beckwith made a simple request of Hartford, Connecticut's more than four hundred policemen—be neat and always be aware of your appearance.

Chief Beckwith wasn't speaking as a novice. He knew that pressed pants and shined shoes would not turn a poor officer into a super-policeman, but other things could come later.

Superior officers from Assistant Chief John J. Kerrigan down to patrol sergeants began to make closer inspections of clothing and cruisers. The daily police bulletin was headed by the reminder to be neat and courteous and the department's morale picked up when the men realized the new Chief meant business.

Appearance was first. Then came training, both for recruits and in-service for the veterans. Chief Beckwith named Capt. Joseph V. Meaney to head the department's training program and gave him a free hand when it came to assembling topics, speakers and programs. In the past six years, Hartford police recruits were given two weeks classroom training and two weeks on the street. Chief Beckwith has lengthened this training to four weeks in the classroom and two weeks on the street under the supervision of a veteran patrolman.

"The training a young man first receives goes a long way in determining how well he will serve his community. Put a well-mannered young man, with the proper police schooling, out on the street and you can expect results," Chief Beckwith said.

Chief Beckwith has worn and carried a badge in Hartford since 1920. After nineteen years as a patrolman, he was named a detective in 1939 and commended for solving a \$24,000 theft. Six years later he was a sergeant; and five months later, a lieutenant. After he returned from a session at the Harvard University School of Legal Medicine in 1948, he was promoted to captain.

Chief Beckwith has shot it out with gunmen—he was once wounded in the hand in a running gun battle—and during his tenure in the detective division, displayed a seldom found virtue—patience. He would sit

and listen to a suspect talk for hours, pick out a discrepancy and file it in his mind. When the suspect was finished, he would merely nod his head and say, "Don't you think it's time you told the truth?"

As a patrol captain, acting assistant chief and now the top man, Chief Beckwith has never varied this approach: Everyone is welcome in his office; he has provided a friendly atmosphere in the department publicly commanding men for good work; noting on the daily police bulletin all letters in which citizens and businessmen take notice of a job well done; and most important of all, standing right behind his men at all times.

"Problems?" he repeated in reply to a question. "All policemen have problems, but Hartford's biggest police problem is traffic. We are constantly working with the city traffic engineers to keep traffic flowing freely at our peak hours of 4 to 6 P.M."

Otherwise, as Chief Beckwith points out, Hartford has a Crime Prevention Bureau which combines juvenile, vice, liquor, and narcotics and is staffed with fifteen including four policewomen; a Detective Division of forty men under the supervision of Captain Joseph P. McDonald, who in eight years has a record of fifty-nine of sixty homicides solved; a Traffic and Accident Division of thirty-five; and a Records Division under the supervision of a captain with civilian personnel.

Chief Beckwith also believes in delegation of authority.

"If a man is placed in charge of a division, it is his responsibility to run it as he sees fit. I do not believe in interference from the top," he stressed.

Chief Beckwith has every right to expect nothing but top drawer results from his division commanders. The men who head the Detective, Traffic, Crime Prevention and Patrol Divisions all have been trained at the FBI National Academy in addition to other specialized training.

"We are fortunate in Hartford. There is no commercialized vice; an occasional case of narcotics and

(Continued on Page 42)



Identification Yesterday---Today---Tomorrow

by Dean W. Cronkite
Fingerprint Technician

TWO HUNDRED AND SEVENTY-FIVE YEARS AGO, Dr. Nehemiah Grew wrote an article to the Royal Society of London, speaking on the ridge and pore formations found upon the hands, fingers, toes, and feet of the human race. Dr. Grew was only interested in these ridges and pores as a skin study, not as a means of identification. He did, however, open the way for those who were interested in some form or method of identification. The proof of this is that in 1856, Herman Welcker, of Germany, took the impression of his right palm and forty-one years later took another impression of the same hand to see if any of the ridges changed in any way since 1856.

A great many others after Dr. Grew wrote articles on *ridges*, but for the most part they concerned themselves with medical terminology. In 1880 Dr. Henry Faulds wrote an article on the prospective possibilities of criminal and deceased identification by using fingerprints. He is really the first to make any detailed effort or study in the field of identification. There are those who think that William Herschel, when he was Administrator for the British government in India, was the first to use fingerprints as a means of identification when signing contracts, but I am inclined to think he only used them more on the physiological aspect rather than as a comparison method as we do today. Perhaps I would give him more credit than I do if I could read some of his personal notes that he must have made while studying the possibilities of fingerprints.

It was Sir Francis Galton, the British scientist, using all available data on the subject of ridge formations and their permanency, who worked out a practical method of recording and filing fingerprints and published a book on the subject in 1892. Eight years later, Sir E. R. Henry of Scotland Yard, published his book on fingerprints and their classifications, the same basics we use today. If we, in the identification field, think that our progress is slow, we should be reminded that two hundred and sixteen years elapsed between Dr. Grew's article and E. R. Henry's book.

Dr. Henry de Forest installed, for municipal use, the first fingerprinting system in the United States on

ABOUT THE AUTHOR: *Dean W. Cronkite is a lecturer, consultant and instructor on the subject of identification by fingerprints. He is a graduate of Chicago's Institute of Applied Science and also the Faurot School of Fingerprinting. He formerly was the Supervisor of Identification for United Aircraft Corp. He is now on the faculty of the Hartford Institute of Criminology. Mr. Cronkite is a member of the International Association of Identification, United Aircraft Plant Protection Division, and the American Society of Criminology.*

December 19, 1902. From this one agency we now have over thirteen thousand such agencies throughout our nations. It is interesting to note that since Dr. de Forest fingerprinted a New York City fireman, James Johnson, on the above date, our Federal Bureau of Identification has over seventy-five million prints on file, both criminal and civil. The two wars have multiplied our civil files tremendously. They also receive some twenty thousand prints daily to file, classify and search. This has been accomplished in fifty-seven years.

During World War II we estimated that approximately 70% of our population was fingerprinted; today we only have a little over 40% and that will lessen as time goes by unless some worthwhile measures are taken to fingerprint the citizenry. The experts say that by 1970 our population will reach the two hundred million mark; also that in 1957 we had 4,302,000 babies born in the United States. If we can take an average of four million births a year for the past twenty years, then we have over seventy-five million under twenty-one years of age who are not fingerprinted, and this will increase as time goes by. Out of this group there will be some who will go into the Armed Forces and civil service of some type, but the biggest percentage will not be fingerprinted unless steps are taken to do so.

In the pioneer phases of yesterday, fingerprints were introduced to the police because of the definite value they had in crime detection. We have improved on our methods and materials for recording, classifying, and filing prints. Our techniques in developing latent prints have improved and every new crime is a challenge to all identification officers to combine their experiences in finding its solution.

Our law enforcement agencies today have the advantage over those of yesterday because of the availability of "on and off the job training" for all police officers. It has opened a much broader field in identification, photography, firearms, handwriting, and chemistry. These are but a few of the many techniques used today in modern crime detection. It is also an important medium for crime prevention and our police are now being trained to spot trouble before it starts rather than try to solve the crime after it has been committed.

The neatness, politeness, and scientific methods used by our police today are showing the public the benefits of good training. Public relations between police and their communities are constantly improving. Policemen of "the old school" are gradually going into retirement and being replaced by younger and better trained men. The old theory that all criminals are stupid and ignorant must also go into retirement because it has been proven that with our compulsory school laws and modern school systems, the average intelligence of the nation is rising steadily, and in order for our policemen to compete with current conditions they

must have a higher technical training than they had yesterday, and must keep constantly training so as not to be left behind tomorrow.

Fingerprints used as personal identifications have proven their worth by being the only means of identifying deceased victims of hit-and-run or drowning, amnesia victims and many other such incidents all across this great nation of ours.

A good example of benefits that would be derived from the footprinting of babies and fingerprinting of school children is perhaps here in Connecticut where there is a little grave of a small girl marked Miss 1565 who was an unidentified victim of the Hartford circus fire, July 6, 1944. Detective Lieutenant Thomas C. Barber, of the Hartford Police Department, has decorated her grave every Memorial Day since the fire. I have often wondered if he didn't do that hoping that someday those who could make it possible will pass laws requiring hospitals to footprint all babies and schools to fingerprint all children. Perhaps if this had been done there would not be a little Miss 1565 today, but a family name instead.

We have come a long way since 1902, but we still have a lot of work to do. We, in the identification field, should make it our personal interest to sell the public the idea that being fingerprinted would mean being better protected and they would be separated from the criminals and not associated with them as they now think they are when they have to be fingerprinted.

How much easier it would be for our police depart-

ments all over the nation if they could take the fingerprints of an amnesia victim and send them to our State and Federal bureaus, and then be able to call the nearest kin to come for the victim. Instead, many victims have been revealed who have gone for years not knowing who they were.

I sincerely believe that the abandonment of babies would be cut to a very low percentage; at least it would give that child a name which it is entitled to, and also would give it a legal claim to any estate that might in later years be accumulated by its parents.

Whenever I mention this idea to police officials, they all agree with me that it would be a wonderful thing, but they could not handle such a project with their meager appropriations. This, I can readily see, would discourage any attempt to promote such a program, but, if you will, I would like to list the possibilities of the way it could be done tomorrow with little extra work or expense on the part of the individual police departments.

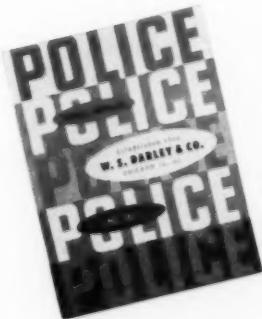
1. Bills be passed by the state legislatures compelling the footprinting of all babies born within the state.
2. The fingerprinting of all school children.
3. That our state police identification bureau become the central files.
4. Appropriations be made by the legislature for the state police to handle this, thus eliminating any necessity of individual police departments having to do so on their own.

(Continued on Next Page)

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Identification (From Page 41)

5. That arrangements be made with each local school board for two or three school teachers from each school to be trained to take good fingerprints, and have a whole school term to do it in, thus taking the responsibility off the local police or communities not having properly trained police officers to do so themselves.

6. A copy be sent to the Federal Bureau of Identification.

The cost for hospitals could be incorporated in the regular hospital bill to the parents. Such legislation would have most of our citizens identified within the next twenty-five years. It would practically eliminate both unknown graves and the abandonment of children. From a psychological viewpoint, it would curtail the activities of our juvenile delinquents.

Banks, insurance companies, and business men would be able to more effectively protect their accounts and their customers because fingerprints can't be forged. With the proper publicity, the majority of the public could be made to realize that being fingerprinted would serve them for good rather than evil. But, they must be sold what every policeman in the world knows—protect the public, the public will not protect itself. END

Chiefly Chatter (From Page 39)

no professional gunmen in the city. Juveniles have been good to us here, aside from petty thefts and occasional property damage. We have never known a gang war."

In closing, this writer asked Chief Beckwith what has given him the most pleasure since being named Chief.

"That's easy. Making the promotions as fast as they come along. I know how it feels to move up in rank and these men feel the same way," concluded the Chief, who while a captain helped virtually everyone on the eligibility list of all ranks to study for the exams, and passed along his own vast world of experience. END

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For further information circle #15 on Readers Service Card

Investigator (From Page 31)

but the gun part is wearing away the tool. For example, the device used to cut the grooves into the barrel is partially worn away by every barrel it cuts. This means that the "mountains" it creates are always a bit different. Therefore, two barrels manufactured one right after the other by the same tools will produce different scratches upon the first bullets fired through each of them.

And, as the gun is fired, the "mountains" on the lands and grooves are being worn away and new ones dug up by its bullets. Also causing different mountains to appear are various other factors, such as dirt getting into the barrel or the action of the cleaning rod. Thus, scratch marks that the lands and grooves impart to a bullet are continually changing.

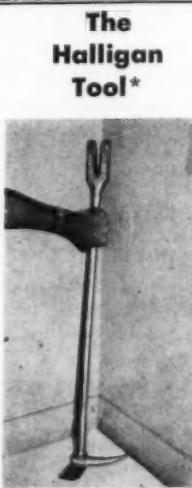
That is why it was previously stated, "If some of these scratches appear on both the test sample and crime evidence." We can never expect complete duplication of individual characteristics, even in two bullets fired consecutively from the same barrel.

(This chapter will conclude in next month's issue.
Editor)

The author wishes to thank William E. Kirwan, Director of the New York State Police Scientific Laboratory, and George W. Harman, San Francisco Polygraph Director of John E. Reid and Associates, for their many valuable suggestions regarding this chapter.

Next Issue

The December issue of **LAW AND ORDER** will again have a listing of dealers in police equipment. Hundreds of questionnaires have been sent to dealers asking for verification of address. If you are a dealer and have not received the questionnaire, write us immediately.



"But, Officer, Men never seem to see my hand."

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November, 1959

Book Reviews

The Practical Patrolman
by David H. Gilston and Lawrence Podell. Published by Charles C. Thomas, Springfield, Ill., 225 pages, \$6.75.

EVERY PROFESSION has certain tricks of the trade which generally are learned the hard way through years of practical experience. The police profession has a multitude of these tricks—perhaps because there are so many facets to the work expected of a law enforcement officer.

Formal training covers subjects such as what laws are to be enforced, how they may be enforced legally, what assistance may be rendered under many different circumstances. However, there is not time in any training course to cover all the minute details which will, when learned and applied, save the officer many "hard knocks." To help the young recruit meet these situations, he is paired with an experienced officer for a further period of time after his schooling.

The "Practical Patrolman" was writ-

ten in an effort to provide the new recruit with a source of information on these invaluable tricks of the trade. It includes so many hints that it is literally worth its weight in gold to the rookie, or the experienced patrolman.

One of the authors, David H. Gilston, is a veteran of fourteen years of police experience. The other, Lawrence Podell, is an Assistant Professor in the Department of Sociology and Anthropology at City College of New York, and has done considerable research on different professions and occupations. Between them they have managed to bridge the gap between theory and practice.

The book is divided into three parts. The first explores the job itself. It discusses such subjects as: being prepared for anything, physical restraint, building a reputation, patrolling, various types of crimes and criminal actions ranging from assault to infernal machines to traffic accidents and violations, custody, evidence, testimony and many others.

Part II is concerned with ways of handling various types of people such as juveniles, women, psychos, addicts as well as the press and fellow officers.

The third section is entitled "The Life" and covers subjects such as health and safety, promotion, attitudes and retirement.

All through the book the authors have made liberal use of every-day happenings to illustrate the point in question, and some which can only be classed as highly unusual. For instance, in explaining various ways of dispersing mobs, the following story is used:

"One officer confronted by an inquisitive crowd closing in on a drunk lying in the gutter yelled at them: 'Stand back! This man has Carpathian Crud and you know how contagious that is!' Everybody got out of there fast."

These illustrations serve to prove that the patrolman must be mentally and physically prepared to cope with a vast variety of situations, some routine and some extraordinary, instantaneously and with authority. The patrolman has to be quick-witted for many times he has no time to consult rule books or seek sage advice. Other times he must act with deliberation and diplomacy. To recognize the difference is the mark of a professional policeman and it comes only after thorough preparation and active study.

This reviewer doubts that there is any law enforcement official from the man almost ready for retirement to the newest rookie who would not benefit from some remarks made in this book. It is particularly recommended for the ambitious young officer who intends to make law enforcement a lifetime profession.

D. I. Fagerstrom

The Silent Investigators. by John N. Makris, Publisher E. P. Dutton & So., Inc., 300 Fourth Ave., New York 10, N. Y., pp. 319, \$4.95.

THE LEAST KNOWN, least publicized law enforcement agency in this country, the U. S. Postal Inspection Service, is also the oldest. Since the days of Benjamin Franklin, our first postal inspector, the Service has lived by the adage that "undue or flamboyant publicity of criminal matters is not in the interest of the public... Publicizing crime always brings imitators."

"The Silent Investigators" gives an authoritative account of the work of these dedicated men. The confidential files of the Service were opened to the author and he was free to choose the material he felt would best portray the history and work of the Service. It is an exciting story and an inspiring one.

The postal inspectors handle a variety of jobs. They are highly trained investigators, who recognize no time limitation on any case that comes within their jurisdiction. From infinitesimal scraps of information and physical evidence, they bring to justice those who would use the mails for criminal purposes. These criminal investigations include post office burglaries, holdups and robbery of mail custodians, theft and rifling of mail, forgery of money orders and postal savings certificates, embezzlement of postal funds and government property, mailing of explosives, poisons, obscene matter, poison-pen and blackmail letters, quack patent medicines and therapeutic devices, use of the mails for fraud.

Perhaps one of the best remembered cases involving the postal inspectors in recent times is the Graham case. On November 1, 1955 a United Air Lines plane exploded in the air and crashed northeast of Longmont, Colorado. Within minutes postal inspectors began to converge on the site. The first consideration was to collect the mail which had been aboard the plane and had survived the explosion. This was scattered over an area some 8½ miles long and four miles wide. The second consideration was to determine the cause of the disaster. By examining the wreckage and all the small fragments that could be found, the inspectors were able to establish the fact that the plane had been destroyed by dynamite placed in luggage. Since no postal violation was involved the case was turned over to the FBI. Two weeks later Jack Gilbert Graham, who killed forty-four people in an attempt to collect on his mother's insurance, was arrested.

The inspectors work no regular hours, have no set "beats," are free to handle their cases at their own discretion. The one inflexible rule is that each inspector must advise his superior each day where he is going

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and on which of his assigned cases he will be working. An inspector may be handling anywhere from 65 to 125 cases at any given time.

Another facet of the postal inspector's work is to see that the post offices are run in the most efficient possible manner. In this capacity he must be a skilled efficiency expert, administrator, and accountant. It is the postal inspector who teaches and guides the new postmaster, and advises the veteran in the many knotty problems which inevitably arise.

To make full use of all the facilities, services, and knowledge that is available to him is each inspector's privilege, and to add to those experiences for the benefit of his successors in his duty.

Chief Postal Inspector D. H. Stephens, in his introduction to this book, gives this reason for cooperating with Mr. Markris: "We now feel, however, that the cost to the public of crime committed by mail is so tremendous that only widespread awareness of the frauds and deceptions foisted upon the unsuspecting can help break the back of these vicious rackets. . ." It is time, too, that other law enforcement agencies be made aware of the work done by the inspectors.

The historical facts, which could be quite dull reading, have been made extremely interesting through the generous use of examples to explain the point. These are true happenings, and are told by a master craftsman. You will enjoy reading this book, and you will better understand these "silent investigators" who are also members of your profession. D. I. Fagerstrom

NEACP (From Page 38)

introduction of Supt. Lyddy's family. He has four sons—a dentist, a medical doctor, a lawyer and a priest. Any man would be proud to have a family such as that and the members of the association shared his happiness.

Summary

This was another successful conference of the NEACP. Each year they meet in a resort hotel away from the busy city, thus insuring a "captive audience" as there is no temptation to leave the premises for sightseeing elsewhere. As a result, every chief participates in committee reports and listens to the papers given by guest speakers. He takes home with him new thinking on old problems.

Nor is it all work and no play—the afternoons belong to the individual. Many played golf, while others preferred less strenuous exercise. Entertainment for the ladies was provided. Monday night in Convention Hall a vaudeville show was given. The acts were booked out of Boston and each had been on a national television program. They were unusually high in quality.

Next year the conference will be held Sept. 11th to 13th at Wentworth-by-the-Sea, New Hampshire.

END

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New Appointment

The appointment of Paul M. Howard as Assistant Professor of Police Science at Long Beach State College has been announced by Dr. A. C. Germann.

Professor Howard served as a Special Agent with the Federal Bureau of Investigation for seven years, during which time he received a total of

seventeen FBI commendations for outstanding work including ten personal commendations from Director J. Edgar Hoover.

The Long Beach State College Police Science Program, which Professor Howard joins, has some two hundred sixty students enrolled, including 145 law enforcement officers from thirty-seven jurisdictions. *Police Supervision and Patrol Procedure* will be taught by Professor Howard in the Fall semester.

A Confidence Man's M. O.

Every now and then we receive a "wanted" bulletin from a law enforcement agency. As a rule we do not publish the information because of our limited space. This policy often gives us a pang of regret because we know how very hard some officers work on a case, and we would like to cooperate. However, enough F.B.I. "wanted" notices are in circulation, as are the bulletins of police departments. Between them they get complete coverage.

Recently we received a "wanted" bulletin from Chief H. S. M. Nelson, of Moline, Ill. It was on Kenneth Franklin Miles, FBI #4407825, who also has four known aliases. Miles is a white, male, about 35 years old, 5 ft. 3 in., slightly hump backed, etc. His unique modus operandi is worthy of a fiction writer's imagination, and we think it of interest to our readers. Mind you, he has worked this trick more than once . . .

He walked into the Moline Public Hospital at 5:45 P.M. on August 11th claiming to be in severe pain from a fall from a horse. The doctor called, diagnosed the case as "possible cervical fracture." X-rays were then taken and he was put in bed in traction. From his bedside, he made telephone calls to local merchants asking delivery of merchandise for which he paid by issuing bad checks—one for a diamond ring in the amount of

\$284.50; one for a wrist watch in the amount of \$211.32; the other for a radio in the amount of \$53.87. None of the merchants knew Miles but thought it safe to accept his personal check as it appeared that he would be in the hospital for quite some time. However, he checked himself out the following day and presented insurance cards for Mutual of Omaha and Continental Casualty to take care of the hospital bill. His mode of transportation to and from the hospital is usually by taxi cab or ambulance. He does not have an automobile.

Detective Sergeant Eugene P. Hermes worked on this case and suggests this information would be helpful to some of his brother officers.

EDITOR'S NOTE: Since this note was set in type, we received a notice that Miles has been apprehended. However, the case was so unusual we thought you would like to hear it.

Paperhanglers

While we are on the subject of wanted bulletins, several months ago we heard from Sgt. Oddie N. Maddox, of the Springfield (Oregon) Police Department. He was most anxious to nab a pair of paperhanglers. He says in his letter, "This couple has passed over \$150,000 in bogus checks since July, 1955—and their true identity is still not known."

The male member of the team has thirty-three aliases listed in the wanted bulletin. First on the list is B. Dawson, 30 to 35 years old, 6 ft. 180 pounds, blue eyes, medium brown hair. While drinking he plays juke boxes and repeatedly plays recordings of Frank Sinatra. He has on occasion been accompanied by a female who passes checks. She has been described as 19 to 21 years of age, 100 pounds, light blonde, and uses several aliases, one of which is Paula Harrington. Possibly she is a diabetic as insulin has been purchased at drug stores. She purchases insulin when cashing checks at drug stores, asking for Lente U-80 and also Dexedrine. (Lente U-80 is very rarely called for.)

The pair seems to operate markets and drug stores and generally give a nearby local address. They operate separately, however, never cashing checks in stores together.

If this M. O. seems familiar to you, write to Sgt. Maddox, or Chief Floyd L. Clower, Police Department, Springfield, Oregon, for the full bulletin information.

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Interior view of mobile teleprinter center

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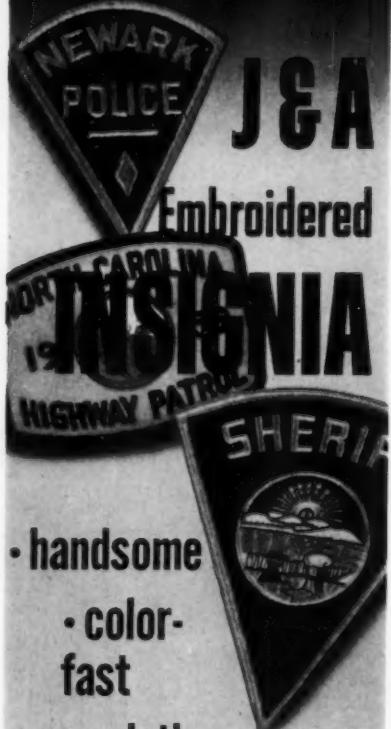


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48



EDITOR'S NOTE: We received the following letter telling about the Police Wives Club of Plymouth, New Hampshire. The success of their organization may inspire other communities to start one of their own.

Dear Lee:

Up in Plymuth, New Hampshire, there is an organization called the Police Wives Club. This organization was formed earlier this year at the instigation of Police Chief and Mrs. Paul W. Knight, both of whom have a great deal of unselfishness and dedication to the cause of public service.

Although their own children have several years to go before reaching the teens, Chief Knight and his wife were concerned about the lack of organized teen-age recreation in Plymouth after the end of the school year. Instead of doing nothing about it, however, they cleaned out their barn and invited all the teen-agers in town to come in to regular Saturday night teen-age dances as a means of keeping them off the streets and providing supervised release for excess energy. At first this was a personal project of the Knight's, but it led to the formation of the Police Wives Club which took over and continued the sponsorship of the dance nights.

Plymouth has a police force of only eight men. By definition, therefore, the membership of the Club is limited to eight women. But under the leadership and direction of Mrs. Knight, who has youth and beauty as well as brains and executive ability, this group of women is achieving its double-pronged objective of working with and helping teenagers and providing better enforcement tools for the Police Department.

Since early summer, they have not only continued their activities in behalf of the youth of the community, but they have also raised several hundred dollars that is ear-marked for Police Department equipment. An indication of the impact which the group is making on its own community and throughout the State is provided by the fact that they recently put on a dinner to which the Governor of New Hampshire traveled from Concord in order to be the featured speaker. Their next big project will be a masquerade ball to be held during the latter part of October.

This is a group of active, energetic and dedicated women performing an important function in a small part of New Hampshire. The news of their activities should be spread to other communities where the formation of similar groups should be encouraged.

Sincerely yours,
Hugh G. Boyd
Red Bank, N. J.

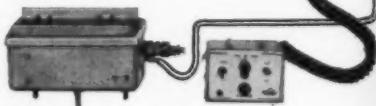
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For further information circle #92 on R. S. Card
Law and Order



Weapon-Wise

A Technical Report on Weapons for Law Enforcement



Law and Order's

Sixth Annual Gun Guide

Compiled by David O. Moreton
Technical Editor

IN THIS, the Sixth Annual Weapon-Wise Gun Guide I have endeavored to continue LAW AND ORDER's policy of expansion, increasing the number of listings of weapons available from the major U. S. manufacturers. The Identification, Training and Reference sections have been enlarged to include a basic list of gunsmithing texts. A list of commercial reloading services has been added. Additions, deletions,

corrections and new illustrations have been made throughout the entire Guide.

In an effort to further enhance the usefulness of this Guide, questions pertaining to specific weapons, or equipment can be addressed to me directly as follows:

David O. Moreton
LAW AND ORDER Test Laboratory
Box 32
Jackson, New Hampshire

I cannot fill requests for manufacturer's literature, but I can comment on products and sources of supply that may solve your particular problem. Tests and product stories pertaining to many of the weapons and equipment listed here are constantly in process in our effort to expand LAW AND ORDER's editorial service to its law enforcement officer-readers everywhere.

Section I Guns

This past year has seen no great change in the handgun field, however the major manufacturers have all recognized the TV western trend and are all supplying modern versions of the guns that won the west. The Colt, Smith & Wesson and Ruger companies are all supplying guns with longer barrels, a la Ned Buntline, and each has chambered at least one revolver for the new .22 rim fire magnum cartridge.

In the police field it is notable that the big two, Colt and Smith & Wesson are catering to police demands for improvements in police weapons. More reliable, and fool-proof adjustable sights are the result. There is a definite trend toward adjustable sights on a heavier weapon for uniform wear. The Colt Trooper and .357 are examples of this trend. Smith & Wesson's new Heavy Barrel Military and Police is another example without adjustable sights.

Astra Falcon

Caliber	.22
	.32
Ammunition	.380
Number of Shots	All standard factory loaded .22, .32 and .380 caliber cartridges
Type of Loading	Magazine
Type of Action	Semi-automatic blow back
Barrel Length	.22—3 1/2 inches .32—3 1/2 inches .380—3 1/2 inches



Overall Length	.22—6 1/2 inches
Height	.22—4 1/4 inches .32—4 1/4 inches
Weight	.22—20 ounces .32—24 1/4 ounces
Sights	Fixed
Finish	Blue
Trigger Pull	3 to 4 pounds
Safety	Thumb

Note: A conversion unit is or will be available to convert the .380 to .32 or vice versa, units will be called Falcon Bi-Cal, Falcon Bi-Con and Falcon Tri-Cal . . . priced from \$50.00 to \$81.00 depending upon unit. Imported by Firearms International

Caliber	.380
Ammunition	.380 Automatic
Number of Shots	7
Type of Action	Automatic
Type of Loading	Magazine
Barrel Length	3 1/2 inches
Overall Length	5 1/2 inches
Weight	24 ounces
Sights	Fixed
Stocks	Checkered Plastic
Finish	Blue or Chrome
Trigger Pull	4 to 5 pounds
Safety	Thumb
Price	\$44.95

Note: Also available in .22 caliber. A .25 caliber version is also available with a grip safety and internal hammer. .32 and .35 caliber weigh 18 and 19 ounces respectively. Imported by J. L. Gale & Son, Inc.

Browning 9 mm Parabellum



BROWNING 9 mm Parabellum
Automatic Pistol

Caliber	8 mm Parabellum
Ammunition	9 mm Parabellum
	9 mm Luger
Number of Shots	13
Type of Action	Automatic
Type of Loading	Magazine
Barrel Length	4 21/32 inches
Overall Length	7 1/4 inches
Height	5 inches
Weight	32 ounces
Sights	Fixed Front; Rear adjustable for windage
Stocks	Hand-checkered French Walnut
Finish	Blue or Engraved Nickel
Trigger Pull	3 to 4 pounds
Safety	Thumb
Price	\$74.50

Importer, Browning Arms Co.



Beretta .380



Browning .380



BROWNING .380 Caliber
Automatic Pistol

Caliber	.380
Ammunition	.380 Caliber Automatic
Number of Shots	6
Type of Action	Automatic
Type of Loading	Magazine
Barrel Length	3 7/16 inches
Overall Length	6 inches
Height	3 1/2 inches
Weight	20 ounces
Sights	Recessed
Stocks	Checkered hard rubber
Finish	Blue or Engraved Nickel
Trigger Pull	3 to 4 pounds
Safety	Thumb and Grip
Price	\$44.50

Importer, Browning Arms Co.

Colt Agent (Lightweight)



Caliber	.38 Special
Ammunition	.38 Special (mid-range and regular service loads)
Barrel Length	2 inches
Overall Length	6 1/4 inches
Weight	14 1/2 ounces
Sights	Fixed type, ramp style, glare proofed. Front blade is .110 inch wide; rear notch is .135 inch
Trigger	Grooved
Hammer Spur	Grooved
Stocks	Full-checkered walnut; rounded butt
Finish	Colt blue only
Hammer Shroud	Is available for this gun
Trigger Pull	3 1/2 to 4 pounds
Price	\$71.50
Mfr.	Colt's Patent Firearms

Note: Special police prices are in effect on all Colt Firearms.

Colt Cobra (Lightweight)



Caliber	.38 Special; .38 New Police; .32 New Police
Ammunition	All factory loaded. .38 Special Ammunition, regular and high speed

Number of Shots	38/44; .38 New Police
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder simultaneous ejection
Barrel Length	2 1/4 inches
Overall Length	6 1/4 inches
Weight	15 ounces
Sights	Fixed ramp type front sight, glare proofed, milled in frame rear sight, glare proofed
Stocks	Full checkered walnut, round butt
Finish	Dual Tone Blue
Trigger Pull	3 1/2 to 4 1/2 pounds
Price	\$71.50



Finish	Colt Royal Blue
Trigger Pull	3 to 5 pounds, with spring-loaded trigger stop.
Trigger Frame	Grooved
Hammer Safety	Straight Mainspring Housing (arched available)
Price	Grip and thumb safeties \$125.00

Colt Government Model .45



Caliber	.45 Automatic (A.C.P.)
Ammunition	All .45 A.C.P.
Number of Shots	7
Type of Action	Semi-Automatic, slide stays open on last shot
Type of Loading	Magazine
Barrel Length	5 inches
Overall Length	8 1/2 inches
Weight	39 ounces
Sights	Fixed type, ramp style front
Finish	Dual Tone Blue or Nickel
Stocks	Checkered Coltwood
Trigger Pull	3 to 5 pounds
Safety	Grip and thumb safeties
Price	\$78.25



Caliber	.38 Super
Ammunition	.38 Super Automatic
Number of Shots	9
Type of Loading	Magazine
Type of Action	Semi-Automatic, slide stays open after last round
Barrel Length	5 inches
Overall Length	8 1/2 inches
Weight	39 ounces
Sights	Fixed, glare proofed
Trigger	Grooved
Hammer	Checkered Coltwood (Plastic)
Stocks	Colt Blue or Nickel
Finish	Grip and Thumb
Safety	
Price	\$78.25

Colt Commander (Lightweight)



Caliber	.45 A.C.P., .38 Super and 9 mm Luger
Ammunition	All commercial and military grades
Number of Shots	7—45; 9—.38 and 9—9 mm
Type of Action	Semi-Automatic
Type of Loading	Magazine
Barrel Length	4 1/4 inches
Overall Length	8 inches
Weight	26 1/2 ounces
Sights	Fixed type, ramp style front
Stocks	Checkered Coltwood
Finish	Dual Tone Blue only
Trigger Pull	3 to 5 pounds
Safety	Grip safety and manual
Price	\$78.25



Caliber	.38 Special
Ammunition	.32 New Police
Number of Shots	38 Special, all factory loaded grades; .38 New Police; .32 S & W; .32 New Police; .32 S & W Short and Long
Type of Action	Singl and Double
Type of Loading	Swing Out Cylinder simultaneous ejection
Barrel Length	2 inches
Overall Length	6 1/4 inches
Weight	21 ounces
Sights	Fixed, modified ramp type front/rear.
Trigger	Grooved
Hammer	Full checkered walnut, round butt
Stocks	Colt Blue or Nickel
Finish	3 1/2 to 4 1/2 pounds
Trigger Pull	\$74.60



Caliber	.45 Automatic (A.C.P.)
Ammunition	.45 Mid-range wad cutter or .45 A.C.P.
Number of Shots	7
Type of Action	Semi-Automatic, slide stays open on last shot
Type of Loading	Magazine
Barrel Length	5 inches
Overall Length	8 1/2 inches
Weight	37 ounces
Sights	Target grade; front sight, vertical rear face; improved adjustable rear sight with positive clicks.
Stocks	Checkered Walnut with gold plated medallion



COBRA \$83.71*



OFFICIAL POLICE 4" \$52.82*



PYTHON \$93.00*



DETECTIVE SPECIAL \$50.95*



SINGLE ACTION ARMY \$93.90*



TROOPER \$58.94*

When a law-enforcement officer chooses a handgun for off-duty use, two major Colt advantages stand out. The most obvious is the famous Colt "sixth shot" which provides 20% more fire power—a natural edge over many other police types. The other advantage is the famous Colt hand-fitting heft, unmatched in the making of firearms. Both these advantages stem from the tradition of fine handguns Sam'l Colt created a century and a quarter ago, a tradition that Colt's Patent Fire Arms has maintained ever since. Shown above are six models of the Colt line of fine handguns, suitable for on-duty, off-duty hunting or plinking. *Prices listed above are available to law-enforcement officers only. Appropriate affidavit must be submitted.



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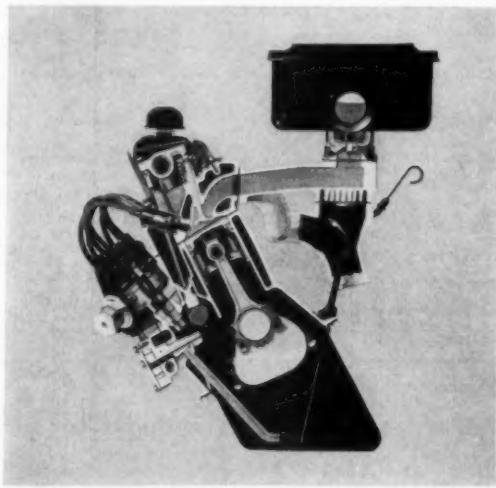
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Solid new Dura-Quiet Unibody.

Every Plymouth is built a new way with a new kind of unit construction called Dura-Quiet Unibody. About 5400 precise welds join sturdy steel of body and frame into one, strong, solid, welded unit. This kind of unit construction gives more pure strength per pound of steel, more inside room, where room is needed, and tens of thousands of extra, rugged, quiet miles. Seven different preparatory and protective baths and six special chemical sprays cut body corrosion and maintenance 'way down.

New engines for every need.

New inclined 30-D Economy Six Engine—145 horsepower at 4000 RPM—is ideal for city police. Delivering top gas economy,



it rivals sixes with 30 to 70 less horsepower. It is the best performing six in its class and is standard in the Patroller 6. It uses regular gas. *New Fury V-800*—Big, rugged, it develops 230 horsepower at 4400 RPM. A powerful V-8 for both city and suburban use and can hold its own on the highways. Standard in the Patroller Special 8 model.

Golden Commando 395 V-8—This brute develops more torque per cubic inch than any other standard engine used for police work. It's built for the Pursuit Special 8, made for highway and turnpike patrol.

New rugged transmissions and brakes.

Heavy-duty Synchro-Silent manual 3-speed transmission standard on Patroller 6, Patroller Special 8. Extra cost push-button automatic transmissions: 3-speed New TorqueFlite-6 on Patroller 6. 3-speed TorqueFlite and 2-speed PowerFlite on Patroller Special 8. 3-speed TorqueFlite is standard on Pursuit Special 8. Rugged T-85 manual transmission may be ordered special for the Pursuit Special 8.

New Total-Contact Brakes with three-platform staging—Big, heavy-duty 12" brakes have 251-square-inch lining area. Linings are bonded, not riveted to shoe. This helps eliminate drum scoring damage, also means longer lining life. Specially built platforms assure extremely accurate alignment and help eliminate brake noise.

New models.

Plymouth offers three Solid Plymouth Police Cars with special high-performance equipment for '60. The Patroller 6, the Patroller 8 and the Pursuit Special 8. Plymouth also offers Emergency Police Wagons—roomiest in the low-price field.

Before you make any new commitments for Police Cars, we urge you to learn the details of the new line of Solid Plymouth '60 Police Cars. Ask your nearest Plymouth dealer for the new Plymouth Police Car Catalog, or talk with him at your earliest convenience. There's no obligation at all.

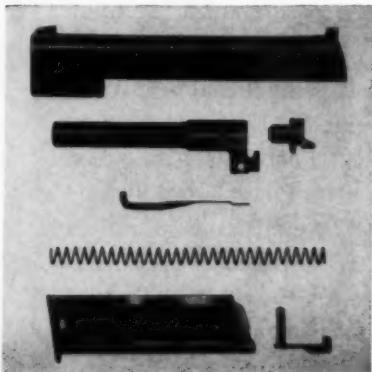
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SOLID PLYMOUTH 1960



Colt Conversion Unit

For economical target shooting with .22 Long Rifle ammunition, using regular receiver assembly of Colt .45 or Colt Super .38 Automatic Pistols. Adjustable Colt Rear Sight insures increased accuracy with this new and improved accessory. Simple interchange of genuine Colt parts gives two guns in one. No tools needed. Magazine capacity 10 rounds, .22 Long Rifle only. Price \$44.00



Colt Officers Model Match



Caliber	.38 Special; .22 Long Rifle
Ammunition	.38—All factory loaded, .38 Special, ammunition regular and high speed; .22—All .22 Long Rifle, regular and high speed
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	6 inches; .22—6 inches
Overall Length	11 1/4 inches; .32—11 1/4 inches
Weight	39 ounces in .38 with 6 inch barrel, 43 ounces in .22 with 6 inch barrel
Sights	Undercut front sight with removable blade, in 1/8 inch standard; 1/10 inch on special order. Colt Accro rear sight adjustable for windage and elevation
Stocks	Full-checkered walnut, square butt
Finish	Dual Tone Blue
Trigger Pull	2 1/2 to 3 pounds
Price	\$83.25

Note: A special short action version of the Officers Model Match is available from Colt's Custom Service Department, this department is under the direction of Arnold "Goody" Goodwin, the developer of the Colt version of the short action. Price \$125.00

Colt Official Police

Caliber	.38 Special; .22 Long Rifle
Ammunition	.38—All factory loaded, .38 Special, ammunition regular and high speed; .22—All .22 Long Rifle, regular and high speed
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	.38—4, 5 and 6 inches; .22—4 and 6 inches



Overall Length	9 1/4 inches with 4 inch barrel, 10 1/4 inches with 5 inch barrel, 11 1/4 inches with 6 inch barrel
Weight	35 ounces in .38 with 6 inch barrel, 38 ounces in .22 with 6 inch barrel
Sights	Fixed ramp type front sight, milled in frame rear sight
Stocks	Checkered Coltwood, square butt
Finish	Dual Tone Blue or Nickel
Trigger Pull	3 1/2 to 4 pounds
Price	\$70.25

Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	4 and 6 inches
Overall Length	9 1/4 inches with the 4 inch barrel
Weight	36 ounces with the 4 inch barrel; 39 ounces with the 6 inch barrel
Sights	Quick-draw ramp type front sight, 1/8 inch width only; Colt Accro rear sight adjustable for windage and elevation
Stocks	Full-checkered walnut, square butt
Finish	Dual Tone Blue
Trigger Pull	3 1/2 to 4 pounds
Price	\$75.00

Note: The Three-Fifty Seven is available with a wide spur hammer and target stocks at \$84.55.

Colt Police Positive Special



Caliber	.38 Special
Ammunition	.32 New Police
Number of Shots	All standard factory loaded
Type of Action	.38 Special, .38 New Police, .38 S & W, .32 New Police, .32 S & W
Barrel Length	Short and Long
Overall Length	6
Weight	23 ounces in .38 caliber
Sights	Swing Out Cylinder simultaneous ejection
Trigger	Single and Double
Hammer	4 and 5 inches
Stocks	4—8 3/4 inches
Finish	5—9 3/4 inches
Price	Fixed

Note: Both the Colt Police Positive Special and the Colt Official Police are available in nickel at \$74.60 and \$77.25 respectively.

Colt The Python



Ammunition	.357 Magnum; .38 Special (all types)
Barrel Length	6 inches
Overall Length	11 1/4 inches
Weight	44 ounces
Sights	ACRCO rear sight, adjustable. Ramp type front sight, 1/8 inch wide only
Trigger	Grooved
Hammer Spur	Fast-cocking, wide spur, checkered
Stocks	Full-checkered walnut, target type, square butt; "gold" medallion
Finish	Colt Royal Blue
Trigger Pull	2 1/2 to 4 pounds
Price	\$125.00



Caliber	.38 Special and .22 Long Rifle
Ammunition	.38—All factory loaded, .38 Special ammunition regular and high speed; .22—All .22 Long Rifle regular and high speed
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder simultaneous ejection
Barrel Length	38—4 inches; .22—4 inches
Overall Length	38—9 1/4 inches; .22—9 1/4 inches
Weight	38—34 ounces; .22—37 ounces
Sights	Quick-draw ramp type front sight, 1/8 inch width only; Colt Accro rear sight adjustable for windage and elevation
Stocks	Full-checkered walnut, square butt
Finish	Dual Tone Blue
Trigger Pull	3 pounds
Price	\$74.60

Note: With wide hammer spur and service stocks the Trooper is priced at \$77.50; with regular hammer and target stocks the price is \$80.50; with a wide hammer and target stocks the price is \$83.25.

Caliber	.45 Colt; .38 Special (all types)
Ammunition	5 1/2 inches and 7 1/2 inches
Barrel Length	11 1/2 inches with 5 1/2 barrel, 13 1/2 inches with 7 1/2 barrel



Caliber	.357 Magnum
Ammunition	.357 Magnum, all factory loaded
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	5 1/2 inches and 7 1/2 inches
Overall Length	11 1/2 inches with 5 1/2 barrel, 13 1/2 inches with 7 1/2 barrel

Weight	37 ounces in .45 caliber with 5½ inch barrel; 39 ounces in .45 caliber with 7½ inch barrel; 41 ounces in .38 caliber with 5½ inch barrel; 43 ounces in .38 caliber with 7½ inch barrel
Sights	Fixed type
Trigger	Smooth
Hammer Spur	Knurled
Stocks	Checkered ebony rubber; square butt
Finish	Case hardened frame; blued barrel, cylinder, trigger guard, and backstrap
Trigger Pull	3½ to 5 pounds
Price	\$125.00

Note: The famed Ned Buntline version of the Single Action Army is available at \$140.00 with a 12 inch barrel in .45 caliber.

Colt Single Action Frontier Scout



Caliber	.22 Short or Long Rifle
Ammunition	.22 Short and Long Rifle, regular and hi-speed
Number of Shots	8
Type of Action	Single
Type of Loading	Single round loading
Barrel Length	4½ inches
Overall Length	9 5/16 inches
Weight	24 ounces
Sights	Blade front, Fixed notch rear
Stock	Checkered composition
Finish	Blue and blue and bright combination
Trigger Pull	3 pounds
Safety	Half Cock
Price	\$49.50



Note: There are two versions of this same handgun known as the Colt Buntline .22 Scout. Both versions have 9½ inch barrels and are priced at \$59.50. Walnut stocks are available at \$5 extra. One is chambered as above and the second version is chambered for the new .22 rim fire Magnum cartridge.

Colt Woodsman Match Target

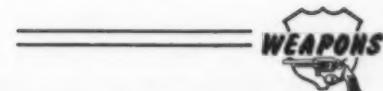


Caliber	.22 Long Rifle
Ammunition	.22 Long Rifle (regular and hi-speed)
Magazine Capacity	10 rounds
Barrel Length	6 inches and 4½ inches
Overall Length	10½ inches with 6 inch barrel; 9 inches with 4½ inch barrel
Sights	ACCRO rear sight, adjustable, ¼ inch standard. 1/10 inch on special order only. Ramp type front sight with removable blade
Trigger	Grooved
Stocks	Automatic Slide Stop
Finish	Checkered Coltwood
Trigger Pull	Colt Blue only
Price	2½ to 3 pounds \$84.50

Colt Woodsman Sport and Target Model



Caliber	.22 Long Rifle
Ammunition	All types of .22 long rifle, regular and hi-speed
Number of Shots	10
Type of Action	Semi-Automatic
Type of Loading	Magazine
Barrel Length	4½ inches and 6 inches
Overall Length	9 inches with 4½ inch barrel
Weight	30 ounces with 4½ inch barrel
Sights	Ramp front, adjustable
Stock	ACCRO rear
Finish	Checkered Coltwood
Trigger	Bright Blue
Trigger Pull	Short grooved
Safety	2½ to 3 pounds
Price	Manual \$74.75



Overall Length	4½ inches
Weight	12 ounces
Sights	Fixed-ramp front, fixed notch rear
Stock	Checkered composition
Finish	Blue
Trigger pull	3 to 5 pounds
Safety	Manual
Price	\$36.50

Note: There is a .22 caliber short conversion available for the Colt Junior priced at \$15.50.

Colt Targetsman



Caliber	.22 Long Rifle
Ammunition	All types of .22 long rifle, regular and high speed
Number of Shots	10
Type of Action	Semi-Automatic
Type of Loading	Magazine
Barrel Length	4½ inches and 6 inches
Overall Length	9 inches with 4½ inch barrel
Weight	30 ounces 4½ inch barrel; 31½ ounces 6 inch barrel
Sights	Fixed blade front, adjustable rear
Stock	Checkered Coltwood
Finish	Colt Dual Tone Blue
Trigger	Wide smooth
Trigger Pull	2½ to 3 pounds
Safety	Manual
Price	\$56.50

Caliber	.38 Dardick Special
Ammunition	.38 Dardick Special * see note
Number of Shots	Series 1100—11 shots; Series 1500—15 shots
Type of Action	Revolving open chamber
Type of Loading	Special Loading Clip
Barrel Length	3 inches on 1100 Series; 6 inches on 1500 Series
Overall Length	9 inches on 6 inch barrel—1500 Series

Colt Huntsman



Caliber	.22 Long Rifle
Ammunition	.22 Long Rifle (regular, hi-speed and high velocity)
Magazine Capacity	10 rounds
Barrel Length	4½ inches and 6 inches
Overall Length	9 inches with 4½ inch barrel; 10½ inches with 6 inch barrel
Sights	Fixed
Trigger	Grooved
Stocks	Checkered Coltwood
Finish	Colt Dual Tone Blue
Trigger Pull	2½ to 4 pounds
Safety	Thumb
Price	\$46.75



Weight	34 ounces 6 inch barrel
Sights	1500 Series
Stock	Fixed ramp front, Adjustable rear optional





Finish
Trigger Pull
Safety

Price

Note: This is the latest information available about this new type of handgun. At present it is due for release early in 1960. The \$99.50 price includes two barrels—a .38 and .22 caliber, adjustable rear sights and 20 adaptors for .22 caliber long rifle. There are adaptors available to convert the weapon to .38 Special, 9mm Luger and .22 rimfire. The Dardick also converts to a rifle with quick change barrels. The .38 Dardick Special is a triangular cartridge called a tround. The case is made of Celanese Fortiflex. It uses a standard primer and bullet.

Blue
3 to 5 pounds
Empty chamber trigger must be pulled

\$99.50



Trigger Pull

Safety

Mfr.

Price

Note: The .38 Special version retails at \$59.95; grips of Pearl or Ivory are available at \$9.00 extra.

Great Western Deputy



Caliber .22 Long Rifle
.38 Special
.357 Magnum
Ammunition All standard factory loaded .22 Long Rifle, .38 Special and .357 Magnum ammunition
Number of Shots 6
Type of Action Single Loading Gate 4 inches with full length rib
Sights Rear adjustable for Windage and Elevation, Front fixed blade
Stocks Walnut
Finish Deluxe Blue
Safety Half Cock
Price .22 Caliber \$109.50
.38 Special \$119.50
.357 Magnum \$124.50

Great Western Derringer

Caliber .38
Ammunition .38 Special
.38 S & W
Number of Shots 2
Type of Action Single
Type of Loading Break Open
Barrel Length 3 inches
Overall Length 4 1/4 inches
Weight 13 ounces
Sights Fixed
Stocks Checkered Black Plastic
Finish Deluxe Blue

Caliber .22
Ammunition

Number of Shots 1
Type of Loading Single top loading ramp
Type of Action Martini
Barrel Length 11 1/2 inches
Weight

Sights

Mfr.

Price

Note: Custom made deluxe models (illustrated) are available. Prices upon application. Importer, H. Grieder

15 Pounds (Safety feature)
Half Cock and extra heavy trigger pull

Great Western Arms Co.
\$49.95

Hammerli Free Pistol



Caliber .22

Ammunition Long Rifle (match grade and standard velocity recommended)

1

Single top loading ramp
Martini
11 1/2 inches
Model 101 and 102 3 pounds, 1 ounce; Model 100 2 pounds, 14 ounces
Microsight rear sight adjustable for windage and elevation; post front sight with interchangeable blades.

Walnut, adjustable vertically
Blue

5-fold transmission set-trigger fully adjustable to fractions of an ounce.

Model 101 \$215.00
Model 102 \$230.00
Model 103 \$280.00

Note: Custom made deluxe models (illustrated) are available. Prices upon application. Importer, H. Grieder

Sights

Stocks
Trigger

Blade front adjustable for elevation. Partridge rear adjustable for windage
Checkered walnut
Grooved



Trigger Pull
Safety

Finish

Price

Note: This is one of the most reliable of the double action twenty-two revolvers. It has been around a very long time, and is an excellent camper's gun.

Harrington & Richardson Inc. Guardsman Model 732



Caliber .32

Ammunition .32 S & W and .32 S & W Long

Single and Double Swing-out cylinder simultaneous ejection

Barrel Length 2 1/2 and 4 inches, heavy barrel

Weight 2 1/2 inch barrel 23 1/2 ounces, 4 inch barrel 26 ounces

Sights Fixed on 2 1/2 inch version
Ramp front and adjustable rear on 4 inch version

Stocks Checkered Tenite
Finish Blue
Trigger Grooved

Trigger Pull 2 1/2 to 5 pounds
Re-bound hammer to safety notch position

Price \$39.95

Note: This is a new H & R model, the blue finish has nonglare finish on top of the barrel and frame; the 2 1/2 barrel version is available in a chrome finish priced at \$41.95; this version is called the model 733.

Harrington & Richardson Inc. "Side-Kick" Model 929



Caliber .22

Ammunition All factory loaded .22 rim fire ammunition regular and high speed

9

Single and Double Swing-out cylinder, automatic ejector return

Barrel Length 2 1/2, 4 and 6 inches

Overall Length 2 1/2—7 1/2 inches; 4—6 1/2 inches

Weight 6—10% inches 6—23 oz.; 4—24 oz.

Sights Fixed

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illustrated folder 101

Dealer inquiries invited.

John C.
KOHAUT

15 Meeker Street • West Orange, N. J.

For further information circle #126 on Readers Service Card

November, 1959

POLICE OFFICERS! The Gun That Saved Bat Masterson's Life Can Now Save Yours! the New DELUXE FRONTIER DERRINGER



.22 SHORT, LONG \$24.95 • .38 SPECIAL CAL \$34.95

Now you can carry a 2nd gun. Many officers have saved their own lives when the chips were down by being able to come up with that old ace in the hole.

Special Advantages and Features.

1. No cylinder bulge, easy to conceal.
2. Can be worn with special under pants holster or inside dress coat pocket.
3. By inverting Derringer in the hand makes a wonderful Brass Knuckle.
4. Only pistol that can fire a .38 special tear gas shell successfully. Does away with the balky fountain pen gas pistol.
5. Can be switched from tear gas shells to live .38 special ammo in 15 seconds.
6. Little recoil with the powerful police .38 special ammo because of the one piece all steel construction.
7. Ballistically more powerful than the standard 2" detective special revolvers as there is no gas pressure escape from a cylinder. Actually more powerful than the 4" bbl. Revolver by Chronograph tests.
8. Can be worn in a special spring wrist holster for maximum concealment.
9. Makes a wonderful "Off Duty" gun. All Officers of the Law should carry a weapon when not on duty. Avoids embarrassing situations in case of trouble.
10. Never before a Police Weapon in a Police caliber at such a low price. No officer can afford to be without one as a 2nd gun.

Many Satisfied Customers...

In the last few weeks we have sold these all steel De Lux Model Frontier Derringers in .38 Special caliber to the following police agencies or their employees.

Los Angeles Police Dept.
Los Angeles office of the F.B.I.
Los Angeles Sheriff's Dept.
Los Angeles Coroner's Office
Miami Beach Police Dept.
Detroit Police Dept.
Pasadena Police Dept.
Burbank Police Dept.
California State Highway Patrol
and many, many others.

These officers are really satisfied with their guns. Many of them have told us that now that they have used them, they could not afford to be without this extra protection.

Hide-Away Holster
(Under Pants)
Spring Belt Clip
\$8.00

HY HUNTER
American Weapons
Corp.

3031 W. Burbank Blvd.
Burbank
California

Letter of Testimony

Jan. 16, 1959

Gentlemen,
Reference is made to your shipment to me of one of your .38 Special Cal. Model Derringer under your prompt handling of my order. I will also appreciate your sending me a price list of parts for this gun. Since I am something of a amateur arm's expert and in my appraisal of this weapon, I had many misgivings about this weapon even after examining it. I had heard of such a weapon based on the .41 double derringer made 25 years ago, but did not build one as my calculations indicated that the hammer blow of the larger barrel would not fire the primer. I ran my weapon through a pretty thorough test. I started with test primed cases. Then with 2 grains of Bulletsya powder between 140 grain bullets, I then went up in half grain increments until I reached 4 grains of Bulletsya. The gun functioned perfectly in both barrels. No breech塞 development even with the 4 grains of ammunition. Of course with ordinary ammunition it also functioned perfectly. I tested for bullet penetration into southern pine against my very fine 4" barrel Smith and Wesson .38 special revolver. With all loads the penetration of pine by bullets were equal. In other words this little derringer will give the same bullet velocity as the standard 4" barrel revolver.

Even though the little gun has considerable kick, I did not find the recoil uncomfortable or objectionable. In fact I would like to have one designed for the .357 magnum ammunition.

This little gun is without doubt the most powerful gun for its size and weight that has ever been built. Also because of its size and power, it is the best personal defense weapon that I have ever seen.

The workmanship used in its manufacture does not come up to that used by Smith and Wesson, Colt and other manufacturers of fine guns, but this does not appear to affect the function of the weapon. I would be interested to know if the frame is a drop forged or a casting and what kind of steel is used in it.

Very truly yours,
M. O. WILBURN
339 South Perry St.
Montgomery 5, Alabama



Stocks	Checkered Tenite in marbled hues
Finish	Blue
Trigger Pull	Grooved
Safety	2 1/2 to 5 pounds
Rebound hammer to safety notch position	Rebound hammer to safety notch position
Price	\$39.95

Note: A chrome finish version is available priced at \$41.95 and known as the model 930.

**Harrington & Richardson Inc.
Ultra "Side-Kick" Model 939**



Caliber	.22
Ammunition	All factory loaded .22 rim fire ammunition regular and high speed
Number of Shots	9
Type of Action	Single and Double
Type of Loading	Swing out cylinder, simultaneous ejection
Barrel Length	6 inches, target weight with a ventilated rib
Weight	33 ounces
Sights	Blade front adjustable for elevation. Partridge rear adjustable for windage
Stocks	Checkered walnut with thumb rest
Finish	H & R Crown-Lustre blue
Trigger	Grooved
Trigger Pull	2 1/2 to 5 pounds
Safety	Rebound hammer to safety notch position
Price	\$49.95

**Harrington & Richardson Inc.
Reising Submachine Gun**



Caliber	.45 A.C.P.
Ammunition	.45 caliber metal jacketed bullets commercial and military loads
Number of Shots	12 rounds
Type of Loading	Box Magazine
Type of Action	Delayed-blowback-operated single shot (S.A.) or Full Automatic Fire (F.A.). Rate of Fire 450 to 600 rounds per minute
Barrel Length	11 inches plus 3 1/4 inches for Compensator
Overall Length	35 1/2 inches
Weight	7.85 pounds with loaded magazine 6 3/4 without magazine
Sights	Peep rear and blade front adjustable for ranges of 50, 100, 200 or 300 yards instantly
Stock	Full walnut Short Rifle Type stock equipped with sling and swivels
Finish	Matte Blue
Trigger Pull	3 to 5 pounds

High Standard Supermatic Trophy



Caliber	.22 Long Rifle
Ammunition	All factory loaded .22 caliber long rifle ammunition regular and high speed

Number of Shots	10
Type of Action	Semi-Automatic
Type of Loading	Magazine interchangeable
Barrel Length	6 3/4 inches
Barrel Weights	8 inches
Overall Length	10 inches
Weight	2 and 3 ounces, Fully Adjustable and Detachable
Sights	8 inch barrel 13 1/2 inches 6 3/4 inch barrel 49 ounces
Stocks	10 inch barrel 51 ounces
Finish	Front blade with serrated ramp. Micrometer rear sight with over-size click calibrated windage and elevation knobs
Trigger	Diamond checkered walnut with thumb rest
Trigger Pull	High polish blue, matte finished slide (top only)
Safety	Wide serrated, gold plated and adjustable
Price	2 1/4 to 3 pounds, fully adjustable, with anti-backlash screw adjustment
Stocks	Thumb
Finish	\$110
Trigger	Note: These pistols come in a beautiful oak case, fitted with places for the barrel weights and tools; for someone looking for a presentation gift this is it in a target pistol.
Trigger Pull	

High Standard Sentinel "Snub Barrel"



This weapon is the same as the regular Sentinel described above except for the following:

Barrel	2 3/4 inches
Sights	Quick Draw Type
Hammer	Hammer spur is rounded off and grooved
Stocks	Rounded Biley Type
Finish	Blue, Nickel and Pastel Colors
Price	Blue \$37.50

Note: The pastel colored versions come in a deluxe mahogany finished case, lined and with a lock and key. Colors are gold, turquoise and pink Duratone. Price is \$49.50

High Standard Supermatic Citation



Caliber	.22 Long Rifle
Ammunition	All factory loaded .22 caliber long rifle ammunition regular and high speed
Number of Shots	10
Type of Action	Semi-Automatic
Type of Loading	Magazine interchangeable
Barrel Length	6 3/4 inches
Barrel Weights	8 inches
Overall Length	10 inches
Weight	2 and 3 ounces, fully adjustable and detachable
Sights	8 inch barrel 13 1/2 inches 6 3/4 inch barrel 50 ounces
Stocks	8 inch barrel 52 ounces
Finish	10 inch barrel 54 ounces
Trigger	Front blade with serrated ramp. Micrometer rear sight with over-size click calibrated windage and elevation knobs
Trigger Pull	Diamond checkered walnut with thumb rest
Safety	High polish blue, matte finished slide (top only)
Price	Wide serrated and adjustable
Stocks	2 1/4 to 3 pounds, fully adjustable with anti-backlash screw adjustment
Finish	Thumb
Trigger	\$85.00
Safety	Note: This is a heavier version of the Trophy model, without the gold finished parts. The Olympic Citation model is the same in every respect except for weight and it is chambered for the .22 short only. Weights are 46, 48 and 50 ounces respectively. All three versions, the Trophy, Citation and Olympic Citation have a detachable stabilizer on the contoured barrel.

Caliber	.22
Ammunition	All commercial grades
Number of Shots	9
Type of Action	Slide Action Pump
Type of Loading	Tubular magazine
Barrel Length	20 inches, Cylinder bore
Overall Length	40 1/2 inches
Weight	7 pounds
Sights	Standard bead front
Stocks	American walnut with grooved fore-end
Finish	Blue
Trigger Pull	3 to 4 pounds
Price	\$85.95

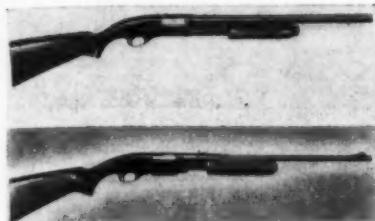
High Standard Sentinel



Caliber	.22 Cal. Rim Fire
Ammunition	All grades of factory loaded .22 cal. Rim Fire
Number of Shots	9
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, single-stroke multiple ejection

Remington Model 870 R-Riot Gun

Caliber	.12 Gauge
Ammunition	All .12 Gauge 2 3/4 inch regular and express shot loads
Number of Shots	5
Type of Action	Slide Action Pump
Type of Loading	Tubular magazine
Barrel Length	20 inches, Cylinder bore
Overall Length	40 1/2 inches
Weight	7 pounds
Sights	Standard bead front
Stocks	American walnut with grooved fore-end
Finish	Blue
Trigger Pull	3 to 4 pounds
Price	\$85.95



Remington Model 760 Rifle
Caliber
30-06 Springfield, 270 Winchester, 300 Savage, 35 Remington, 257 Roberts
Ammunition
All factory loaded ammunition, regular and high speed in above calibers
Number of Shots
5 with one round in chamber
Type of Action
Slide Action Pump
Type of Loading
Detachable Magazine
Barrel Length
22 inches
Overall Length
42½ inches
Weight
7½ pounds
Sights
White metal bead front, semi-buckhorn rear sight
Stocks
American walnut with grooved fore-end
Finish
Blue
Trigger Pull
3 to 4 pounds
Price
\$112.45 Standard Grade

*Recommended caliber for police work.



Ruger Standard Model
Caliber
.22 Long Rifle
Ammunition
All factory loaded .22 cal. Long Rifle
Number of Shots
9
Type of Action
Semi-Automatic
Type of Loading
Magazine
Barrel Length
4½ and 6 inches
Overall Length
4½ inch bbl. 8¾ inches
Weight
4½ inch 36 ounces
Sights
Fixed, wide blade front, square notch rear
Stocks
Checkered hard rubber
Finish
Blue
Trigger Pull
Grooved
Price
2½ to 3 pounds
Mfg.
Sturm, Ruger & Co.



Ruger Mark 1 Target Model
Caliber
.22 Long Rifle
Ammunition
All factory loaded .22 cal. Long Rifle
Number of Shots
9
Type of Action
Semi-Automatic
Type of Loading
Magazine
Barrel Length
5½ and 6½ inches
Overall Length
5½ inch bbl. 9½ inches
Weight
5½ inch bbl. 39 ounces
Sights
Blade front, micro click rear, adjustable for windage and elevation
Stocks
Checkered Hard Rubber
Finish
Blue
Trigger Pull
Grooved
Price
2½ to 3 pounds
Muzzle Brake
\$57.50
85.00



Ruger Single Six
Caliber
.22 Rim Fire
Ammunition
All factory loaded .22 cal. Rim Fire
Number of Shots
6
Type of Action
Single Action
Type of Loading
Loading gate, manual ejector rod
Barrel Length
5½ inches
Overall Length
10½ inches
Weight
35 ounces
Sights
Fixed
Stocks
Blued
Finish
Checkered Hard Rubber
Trigger Pull
3 to 5 pounds
Price
\$87.50

Ruger Black Hawk
Caliber
.357 Magnum
Ammunition
.357 Magnum and .38 Special all grades
Number of Shots
6
Type of Action
Single Action
Type of Loading
Loading gate, manual ejector rod
Barrel Length
4½ inches
Overall Length
10½ inches



Weight	39 ounces
Sights	Ramp front, micro click rear adjustable for windage and elevation
Stocks	Checkered Hard Rubber
Finish	Blued
Trigger Pull	3 to 5 pounds
Price	\$87.50

Ruger Bearcat



Caliber	.22 Rim Fire
Ammunition	.22 Short, long, long rifle, regular and high speed
Number of Shots	6
Type of Action	Single
Type of Loading	Loading gate, manual ejector rod
Barrel Length	4 inches, round
Overall Length	8½ inches
Weight	17 ounces
Sights	Fixed, Partridge front, square notch rear
Stocks	Smooth Wood
Finish	Blue with alloy trigger guard
Trigger Pull	3 to 5 pounds
Price	\$49.50

Note: This new Ruger is the latest in the line and is reminiscent of earlier single actions of the late 1800's. The cylinder is not fluted and is engraved.

Ruger .44 Magnum

Caliber	.44
Ammunition	.44 Magnum and regular
Number of Shots	6
Type of Action	Single

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"On the Range"

7211 LAPEER ROAD

DAVISON 18, MICH.



Type of Loading	Loading Gate, manual
Barrel	ejector rod
Overall Length	6 1/2 inches
Weight	12 inches
Sights	41 ounces
Stocks	Ramp front, micro click
Finish	rear adjustable for windage and elevation
Trigger Pull	Smooth Wood (Walnut)
Price	Blue
	3 to 5 pounds
	\$96.00

Automatic Pistol Neuhausen SIG SP 47/8

Caliber	9 mm Parabellum
	7.65 Parabellum
Ammunition	.22 Long Rifle
Number of Shots	All commercial and military grades
Type of Action	Blow Back
Type of Loading	Magazine
Barrel Length	4 1/4 inches
Overall Length	8 1/2 inches
Weight	31 1/4 ounces
Sights	Fixed
Safeties	Firing Pin Lock
Stocks	Wood
Frame	Steel
Finish	Blue
Trigger Pull	3 to 5 pounds
Price	9 mm model \$99.00
	7.65 mm model \$120.00
	.22 cal model \$130.00
Importer	H. Grieder
Note: Combination gun in all three calibers priced at \$175.00	

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Charles Greenblatt

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For further information circle #14 on R. S. Card

Smith & Wesson Bodyguard



Barrel Length	5 1/2 inches
Overall Length	10 3/4 inches
Weight	36 1/4 ounces
Sights	1 1/10-inch service type front sight; square notch rear sight
Stocks	Checkered Walnut Magna with S & W monogram
Finish	S & W Blue
Trigger Pull	4 pounds plus
Price	Blue only \$70.00

Smith & Wesson "Centennial"



Caliber	.38 S & W Special
Ammunition	.38 S & W Special, .38 Colt Special, .38 Short Colt, .38 S & W Special Mid Range
Number of Shots	5
Type of Action	Double only
Type of Loading	Swing Out Cylinder simultaneous ejection
Barrel Length	2 inches
Overall Length	6 1/2 inches
Weight	14 1/2 ounces
Sights	Fixed, 1/10 inch serrated ramp front, square notch rear
Stocks	Checkered Walnut Magna with S & W monogram
Finish	S & W Blue
Trigger Pull	2 3/4 to 4 1/2 pounds
Price	Blue \$66.00 Nickel \$74.00

Smith & Wesson .44 Magnum



Caliber	.44 Magnum
Ammunition	.44 Magnum, .44 S & W Special, .44 S & W Russian
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder simultaneous ejection
Barrel Length	4 and 6 1/2 inches
Overall Length	6 1/2 inch 11 1/2 inches
Weight	4 inch—43 ounces
Sights	6 1/2 inch—47 ounces
Stocks	Front 1/4 inch S & W Red Ramp; Rear S & W Micrometer Click Sight, adjustable for windage and elevation, white outline notch
Finish	Special oversize target type, of checked Goncalo Alves, with S & W monograms
Trigger Pull	S & W Bright Blue or Nickel
Price	Grooved target type 2 3/4 to 4 1/2 pounds Blue or Nickel \$140.00

Smith & Wesson 1950 Army



Caliber	.45 A.C.P.
Ammunition	.45 A.C.P., .45 Auto-Rim, .45 Automatic Wad Cutter
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection, a half moon clip is necessary for loading .45 A.C.P. cartridges

Smith & Wesson .38 Chiefs Special



Caliber	.38 S & W Special
Number of Shots	5
Barrel	2 or 3 inches
Overall Length	With 2-inch barrel and round butt, 6 1/2 inches
Weight	With 2-inch barrel and round butt, 19 ounces
Sights	Fixed, 1/10-inch serrated ramp front; square notch rear
Stocks	Checkered Walnut Magna with S & W monograms, round or square butt
Finish	S & W Blue or Nickel
Trigger Pull	2 1/2 to 4 pounds
Price	Blue \$60.00 Nickel \$66.00

Smith & Wesson ".357" Combat Magnum



Caliber	.357 (Actual bullet diameter .38 S & W Special)
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All Faurot kits contain "easy to use" equipment and "easy to follow" chemical processes so that the work of the investigator, experienced or inexperienced, can be facilitated in his search for criminal evidence.

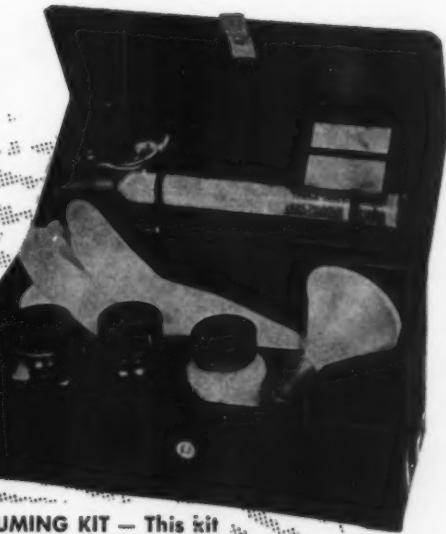


NO. 608A LATENT POWDER AND FINGER PRINT KIT — This handy, compact (5" x 8" x 14") kit contains equipment to take finger prints by the Faurot Inkless Method, to make instant search, develop and lift latent prints on all types of objects and surfaces.



NO. 635 POLICE FIELD KIT — A larger more comprehensive Kit that permits "on the spot" examinations as well as laboratory tests. This kit contains equipment for taking finger prints, developing and lifting old and new latent prints, post mortem finger printing, ultra-violet investigations, forgery detection, preliminary blood tests, obliterated numbers restoration, classification and comparison of finger prints.

For further information circle #161 on Readers Service Card



NO. 640 IODINE FUMING KIT — This kit was designed to conveniently consolidate all the equipment necessary to develop and transfer latent prints by the Iodine Fuming Process. Sufficient chemical supplies for multiple iodine tests are included.



NO. 628 BUREAU LATENT POWDER AND FINGER PRINT KIT — A medium sized kit designed with quality Faurot Equipment for taking finger prints (ink and inkless method), developing latent prints (powders and chemical solution), lifting and examining latent prints. All items are arranged to facilitate the investigators work.

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Number of Shots	8
Barrel Length	4 inches
Overall Length	9 1/2 inches
Weight Unloaded	35 ounces
Weight Loaded	39 1/2 ounces
Sights	Front 1/4 inch Baughman Quick Draw on plain Ramp. Rear, S & W Micrometer Click Sight adjustable for windage and elevation
Stocks	Checkered Walnut Target with S & W monograms Grooved tangs and trigger
Finish	S & W Bright Blue or Nickel
Trigger Pull	2 1/2 to 4 pounds
Price	Blue or Nickel \$100.00

Smith & Wesson Combat Masterpiece



Caliber	.38 S & W Special
Ammunition	.38 S & W Special, .38 Colt Special, .38 Short Colt, .38 S & W Special Mid Range
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	4 inches
Overall Length	9 1/2 inches
Weight	34 ounces loaded
Sights	1/4-inch Baughman Quick Draw on a plain ramp S & W Micrometer Click Rear Sight adjustable for windage and elevation
Stocks	Checkered Walnut Magna with S & W monograms
Finish	S & W Blue
Trigger Pull	2 1/2 to 4 1/2 pounds
Price	Blue only \$71.00

Smith & Wesson Highway Patrolman

Caliber	.357 Magnum
Ammunition	.357 Magnum, .38 Long Colt and all factory loaded, .38 Special Ammunition regular and high speed
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	4" and 6" only
Overall Length	9 1/2 inches with 4 inch barrel, 11 1/2 inches with the 6 inch barrel

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Weight	43 ounces with 4 inch barrel, 46 1/2 ounces with 6 inch barrel
Sights	Quick-draw ramp front, with S & W Micrometer Click rear adjustable for windage and elevation
Stocks	Checkered Walnut Magna with S & W monograms
Finish	S & W Regular Blue
Frame	.357 Magnum with matted top and matted top barrel. Front and rear straps grooved
Trigger Pull	2 1/2 to 4 1/2 pounds
Price	Blue with Magna Stocks \$85.00 Blue with Target Stocks \$90.00

Smith & Wesson K-22 Masterpiece



Caliber	.22 Long Rifle
Ammunition	All .22 Caliber Rim Fire, Short, Long or Long Rifle Cartridges
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	6 inches
Overall Length	11 1/2 inches
Weight	38 1/2 ounces
Sights	1/4 inch plain Patridge front sight, S & W Micrometer Click Rear Sight adjustable for windage and elevation
Stocks	Checkered Walnut Magna with S & W monograms
Finish	S & W Blue
Trigger Pull	2 1/2 to 4 1/2 pounds
Price	Blue only \$76.00

Smith & Wesson .38 Military and Police, Square Butt

Caliber	.38 S & W Special
Ammunition	.38 S & W Special, .38 Short Colt, .38 Colt Special, .38 S & W Special Mid Range
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	2 inches
Overall Length	With 2 inch barrel and round butt 6 1/2 inches
Weight	As above 18 ounces
Sights	(Note—available with 2 inch barrel and square butt)
Stocks	Fixed, 1/10-inch serrated ramp front, square notch rear cut into frame
Finish	Checkered Walnut Magna with S & W monograms
Trigger Pull	S & W Blue
Price	2 1/2 to 4 1/2 pounds Blue Nickel \$85.00 Nickel \$73.00

Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	2, 4, 5, and 6 inches
Overall Length	11 1/2 inches with 8 inch barrel



Weight	31 ounces with the 6 inch barrel
Sights	Fixed, 1/10-inch service type front sight; square notch rear
Stocks	Checkered Walnut Magna with S & W monogram
Finish	S & W Blue or Nickel
Trigger Pull	2 1/2 to 4 1/2 pounds
Price	Blue \$62.00 Nickel \$66.00

Smith & Wesson .38 Military and Police Airweight



Caliber	.38 S & W Special
Ammunition	.38 S & W Special and .38 S & W Special Mid Range
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing Out Cylinder, simultaneous ejection
Barrel Length	2 inches
Overall Length	With 2 inch barrel and round butt 6 1/2 inches
Weight	As above 18 ounces
Sights	(Note—available with 2 inch barrel and square butt)
Stocks	Fixed, 1/10-inch serrated ramp front, square notch rear cut into frame
Finish	Checkered Walnut Magna with S & W monograms
Trigger Pull	S & W Blue
Price	2 1/2 to 4 1/2 pounds
	Blue Nickel \$85.00

Smith & Wesson .32 Regulation Police



Caliber	.32 S & W Long
Number of Shots	5
Barrel Length	2, 3, or 4 inches
Overall Length	With 4-inch barrel, 8 1/2 inches
Weight	With 4-inch barrel, 18 1/2 ounces
Sights	Fixed, 1/10-inch serrated ramp front; square notch rear
Stocks	Checkered Walnut Magna with S & W monograms

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Finish	S & W Blue or Nickel
Trigger Pull	2½ to 4 pounds
Price	\$60.00

Smith & Wesson .38 Regulation Police



Caliber	.38 S & W
Number of Shots	5
Barrel	4 inches only
Overall Length	8½ inches
Weight	18 ounces
Sights	Fixed, 1/10-inch serrated ramp front; square notch rear
Stocks	Checkered Walnut Magna with S & W monogram
Finish	S & W Blue or Nickel
Trigger Pull	2½ to 4 pounds
Price	\$60.00

Smith & Wesson .38 Military and Police, Heavy Barrel



Caliber	.38 S & W Special
Ammunition	.38 S & W Special, .38 S & W Special Mid Range
Number of Shots	6
Type of Action	Single and double
Type of Loading	Swing out cylinder, simultaneous ejection
Barrel Length	4 inches only
Overall Length	9½ inches
Weight	34 ounces
Sights	Fixed; front, serrated ramp; rear, square notch in frame
Stocks	Checkered walnut magna
Finish	S & W blue and nickel
Trigger Pull	2½ to 4½ pounds
Price	Blue \$65.00; nickel \$70.00

Smith & Wesson "357" Magnum



Caliber	.357 Magnum
Ammunition	.357 Magnum, .38 Long Colt and all factory loaded .38 special ammunition regular and high speed
Number of Shots	6
Type of Action	Single and Double
Type of Loading	Swing out cylinder, simultaneous ejection
Barrel Length	3½, 5, 6, 6½, 8½ inches
Overall Length	With 6 inch barrel, 11½ inches
Weight	3½ inches—41 ounces; 5 inches—42½ ounces; 6 inches—44 ounces; 6½ inches—44½ ounces; 8½ inches—47 ounces

Sights

Stocks	Front, choice of S & W
Finish	Target; Rear, S & W
Trigger Pull	Microtometer
Price	Checkered walnut magna

Front	Bright blue or nickel
Target	2½ to 4½ pounds
Rear	Blue or nickel \$120.00

Smith & Wesson .38 Military and Police, Round Butt



Caliber	.38 S & W Special
Ammunition	.38 S & W Special, .38 S & W Special Mid Range
Number of Shots	6

Type of Action	Single and double
Type of Loading	Swing out cylinder, simultaneous ejection
Barrel Length	2, 4, 5, or 6 inches
Overall Length	2½ inch barrel—6½ inches
Weight	2½ inch barrel—26 ounces
Sights	Front, fixed serrated ramp; rear, square notch in frame

Stocks	S & W blue or nickel
Finish	2½ to 4½ pounds
Trigger Pull	Blue \$65.00, nickel \$70.00
Price	in nickel

Smith & Wesson .38 Terrier



Caliber	.38 S & W
Ammunition	.38 S & W
Number of Shots	5
Type of Action	Single and double
Type of Loading	Swing out cylinder, simultaneous ejection

Barrel Length	2 inches
Overall Length	6½ inches
Weight	17 ounces
Sights	Fixed; front, serrated ramp; rear, square notch in frame

Stocks	S & W blue or nickel
Finish	2½ to 4½ pounds
Trigger Pull	Blue \$65.00, nickel \$70.00
Price	in nickel

Smith & Wesson .32 Hand Ejector



Caliber	.32 S & W long
Ammunition	.32 S & W, .32 S & W long, .32 S & W long wad cutter
Number of Shots	5
Type of Action	Single and Double
Type of Loading	Swing out cylinder, simultaneous ejection

Front	choice of S & W
Target	Rear, S & W
Rear	Microtometer
Wad Cutter	Checkered walnut magna

Front	Bright blue or nickel
Target	2½ to 4½ pounds
Rear	Blue or nickel \$120.00

Front	Single and double
Target	Swing out cylinder, simultaneous ejection
Rear	2, 3 and 4 inches
Wad Cutter	4 inches—8 inches
Wad Cutter	4 pounds, 18 ounces

Front	Fixed; front, serrated ramp; rear, square notch in frame
Target	Checkered walnut magna
Rear	S & W blue and nickel
Wad Cutter	2½ to 4½ pounds
Wad Cutter	Blue \$65.00, nickel \$70.00

Smith & Wesson Chiefs Special Airweight



Caliber	.38 S & W Special
Ammunition	.38 S & W Special and .38 Special Mid Range
Number of Shots	5
Type of Action	Single and double
Type of Loading	Swing out cylinder, simultaneous ejection

Barrel Length	2 or 3 inches
Overall Length	2 inches—6½ inch round butt
Weight	2 inches—12½ ounces, round butt
Sights	Fixed; front, serrated ramp; rear, square notch in frame

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Stocks
Finish
Trigger
Price

Checkered walnut magna
S & W blue or nickel
2 1/4 to 4 1/2 pounds
Blue \$70.00, nickel \$77.00

Smith & Wesson K-32 Masterpiece



Caliber .32 S & W Long
Ammunition .32 S & W, .32 S & W long, .32 S & W wad cutter
Number of Shots 6
Type of Action Single and double
Type of Loading Swing out cylinder, simultaneous ejection
Barrel Length 6 inches
Overall Length 11 1/2 inches
Weight 38 1/2 ounces
Sights Front, plain Patridge; rear, S & W micrometer
Stocks Checkered walnut magna
Finish S & W blue
Trigger Pull 2 1/4 to 4 1/2 pounds
Price \$81.00

Smith & Wesson 1950 .44 Target

Caliber .44 S & W Special
Ammunition .44 S & W Special, .44 S & W Russian
Number of Shots 6
Type of Action Single and double
Type of Loading Swing out cylinder, simultaneous ejection
Barrel Length 6 1/2 inches
Overall Length 11 3/4 inches
Weight 39 1/2 ounces
Sights Front, plain Patridge; rear, S & W Micrometer
Stocks Checkered walnut magna
Finish S & W blue
Trigger Pull 2 1/4 to 4 1/2 pounds
Price \$95.00

Smith & Wesson 1955 .45 Target

Caliber .45 A.C.P.
Ammunition .45 A.C.P., .45 Auto-rim, .45 Automatic wad cutter
Number of Shots 6
Type of Action Single and double
Type of Loading Swing out cylinder, simultaneous ejection
Barrel Length 6 1/2 inches, heavy target type
Overall Length 11 3/4 inches
Weight 45 ounces
Sights Front, plain Patridge; rear, S & W Micrometer
Stocks Checkered walnut target
Finish S & W blue
Trigger Pull 2 1/4 to 4 1/2 pounds
Price \$105.00

Smith & Wesson K-38 Masterpiece



Caliber .38 S & W Special
Ammunition .38 S & W Special; .38 S & W Special Mid Range
Number of Shots 5
Type of Action Single and Double
Type of Loading Swing out cylinder, simultaneous ejection
Barrel Length 6 and 8 1/2 inches
Overall Length 6 inches; 11 1/2 inches
Weight 38 1/2 ounces; 42 1/2 ounces
Sights Front, plain Patridge; rear, S & W micrometer
Stocks Checkered walnut magna
Finish S & W blue
Trigger Pull 2 1/4 to 4 1/2 pounds
Price \$81.00

Sights

Sight Radius
Stocks

Finish

Trigger

Trigger Pull
Compensator
Safety
Price

3/8 ounce aluminum counter weight in the weight recess under the barrel
Front Sight, undercut Patridge Rear Sight, New S & W Micrometer Click Sight

9 5/16 inches
Checkered Walnut with modified thumb rest
S & W Blue with sandblasted matte and serrations to break up reflections while sighting

3/8 inch wide, grooved with adjustable trigger stop
2 1/2 to 3 pounds
Detachable
Thumb
Blue only

\$110.00

Smith & Wesson .22 Automatic Pistol Model 46



Smith & Wesson 9 mm Automatic Pistol



Caliber 9 mm Parabellum or Luger
Ammunition 9 mm Parabellum
Number of Shots 9 with one round in chamber
Type of Action Single and Double, slide stays open on last shot. Locked-breech short-recoil automatic
Type of Loading Magazine
Barrel Length 4 1/2 inches
Overall Length 7 1/4 inches
Weight 28 ounces
Sights 1/8 inch ramp front sight, adjustable rear sight
Safeties Magazine disconnector and positive firing pin lock and hammer release
Stocks Checkered Walnut with S & W monograms
Frame Lightweight alloy, with checkered arched main-spring housing and lanyard loop. Frame holds slide rigidly at the front
Finish S & W Blue, matt finished slide.
Trigger Pull 3 to 5 pounds
Price \$85.00

Caliber .22 Long rifle
Ammunition .22 Long rifle regular and hi speed

Number of Shots 10
Type of Action Semi-automatic
Magazine
Barrel Length 7 inches
Overall Length 10 9/16 inches
Weight 42 ounces plus 2 ounces counter-weight

Sights Front, Patridge undercut; rear S & W Micrometer
Stocks Molded nylon
Finish Satin blue
Trigger Pull 2 1/2 to 3 pounds
Safety Thumb
Price \$85.00

Smith & Wesson .22 Automatic Pistol Model 41



This is the newest and third version of the Delux S & W .22 Automatic Target Pistol. Its features are identical to those of the Delux model except that it is fitted with a 5 inch barrel and has no provision for a muzzle brake, barrel weights or Olympic counterweights. The 5 inch barrel is interchangeable with the 7 1/2 inch barrel; without fitting or adjustment. Price \$100.00
5 inch barrel with sights—Price \$26.00

Starfire





Caliber .380
Ammunition .380 Automatic
Number of Shots 6, 7 with round in chamber

Type of Loading Magazine

Type of Action Semi Automatic

Barrel Length 3 1/2 inches

Overall Length 5 1/2 inches

Height 4 inches

Weight 14 1/2 ounces

Sights Fixed

Finish Six color combinations including black, blue, green, gold and gray unbreakable plastic

Stocks

Trigger Pull 3 to 5 pounds

Safety Manual

Price \$54.00

Star Model SI and S



Caliber .32; .380
Ammunition All standard factory loaded, .32 and .380 caliber cartridges

Number of Shots .32 caliber—8; .380 caliber—7

Type of Action Automatic

Type of Loading Magazine

Barrel Length 4 inches

Overall Length 6 1/2 inches

Weight .32 caliber—20 ounces; .380 caliber—19 ounces

Sights Fixed

Stocks Checkered Black Plastic Unbreakable simulated mother of pearl on chrome models

Finish Blue or Chrome

Trigger Pull 3 to 4 pounds

Price \$25.50 other prices from \$65.50 to \$362.50

Importer Firearms International

Thompson Submachine Gun



Caliber .45 A.C.P.
Ammunition .45 caliber metal jacketed bullets commercial and military loads

Number of Shots 20 shot staggered box (Type xx)

Type of Action 50 shot drum (Type L)

Type of Loading Single Shot or Full Automatic Fire 600 to 700 rounds per minute and higher

Barrel Length Box and Drum Magazine 10 1/2 inches; 12 1/2 inches with compensator

Overall Length 33 inches with compensator; 25 1/2 inches without stock

Weight 9 pounds 13 ounces plus 20 rd. mag. 1 1/4 pounds 50 rd. mag. 4 3/4 pounds

Sights Front—fixed blade; Rear—aperture graduated to 600 yards—adjustable for windage, 50 yd. open sight for close quarters

Stock Detachable Walnut—standard U.S. model has carbine type forearm—other models have pistol grip forearm

Finish Matte Blue

Trigger Pull 3 to 5 pounds

Mfr. Numrich Arms Co.

Walther Mark 11



Caliber .32 Auto

Ammunition .380 Auto
Factory Loaded .32 Automatic and .380 Automatic ammunition

Number of Shots .32—8

.380—7

Type of Action Double Action Semi-Automatic

Magazine Both 3 1/2 inches

Overall Length Both 6 5/16 inches

Weight Both 23 ounces

Sights Fixed

Stocks Checkered Plastic

Finish Blue or Nickel

Trigger Pull 3 to 5 pounds

Price Thumb, bar blocking hammer fall

Blue \$58.50

Interarmco Importer

Winchester Model 12 Riot Gun



Caliber 12 Gauge

Ammunition All 12 gauge 2 3/4 inch regular and express shot loads

Number of Shots 5 old style or 6 new crimp shells

Type of Action Slide Action Pump

Type of Loading Tubular Magazine

Barrel Length 20 inch, cylinder bore

Overall Length 39 1/2 inches

Weight 6 pounds 10 oz.

Sights Standard Bead Front

Stock Walnut

Finish Blue

Trigger Pull 3 to 4 pounds

Price \$104.95

Winchester Model 94



Caliber 30-30 Winchester — 32

Ammunition Winchester Special

Number of Shots All factory loaded 30-30 and 32 Special

Type of Action 6, 7 with one round in chamber

Type of Loading Lever

Type of Loading Tubular Magazine

Barrel Length 20 inches

Overall Length 37 1/2 inches

Weight 6 1/4 pounds

Sights Open rear Bead front

Stock Walnut

Finish Blue

Trigger Pull 3 to 4 pounds

Price \$79.95



Federal Dust Projector

Harrington & Richardson Inc. Line Throwing Gun



Caliber .45-70 Smoothbore
Ammunition .45-70 Blank Ammunition
Number of Shots 1

Type of Action Exposed Hammer
Type of Loading Opened By Right or Left Hand movement of top lever, automatic ejection

Barrel Length 14 1/2 inches
Overall Length 30 1/2 inches

Weight Complete Kit weighs 30 pounds (size 31" x 10" x 7")

Sights None
Stocks American Walnut
Finish Case Hardened Frame, barrel is blued

Trigger Pull 4 to 8 pounds
Complete Kit Contains

1 .45-70 cal. gun with canister attached, also recoil pad

1 Box of 20 blank cartridges

4 Rolls of Nylon Line, each 550 ft. in length

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1 Cleaning rod with slotted tip

1 Cleaning Brush

1 Can of Solvent

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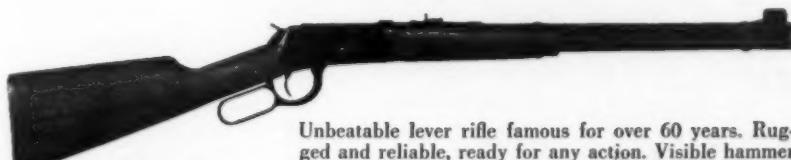
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MODEL 94

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451 "Medalist"



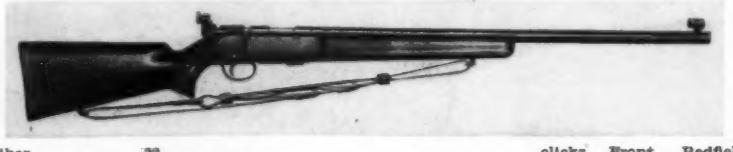
Caliber	.22 Long Rifle	Sights	Lyman 524 F. rear with extension
Ammunition	.22 Long Rifle or regular high speed		Lyman 77 front with 9 inserts
Number of Shots	1	Stock	Oil-finished American Walnut
Type of Loading	Single shot or 5 shot magazine	Special Equipment	Adjustable Trigger stops, leather sling strap, adjustable swivels, 'scope mounting blocks
Type of Action	Bolt	Price	\$99.50; without sights \$79.50 (model 450)
Barrel Length	26 inches		
Overall Length	44 inches		
Weight	10 1/2 pounds		

Remington "Targetmaster" Model 510P



Caliber	.22	Overall Length	43 inches
Ammunition	.22 caliber short, long or long rifle without adjustment	Weight	About 5 1/2 pounds
Number of Shots	1	Sights	Remington Receiver Peep Sight
Type of Loading	Single Shot	Stock	Walnut
Type of Action	Bolt	Safety	Thumb
Barrel Length	25 inches	Special Equipment	Sling Strap (extra cost)
		Price	\$26.35

Remington "Targetmaster" Model 513T



Caliber	.22	Overall Length	43 inches
Ammunition	.22 Long Rifle only	Weight	About 7 pounds
Number of Shots	1	Sights	Rear, Lyman No. 57 S
Type of Loading	Single Shot or 6 shot magazine	Stock	micrometer with 1/4 minute clicks Front, Blade
Type of Action	Bolt	Safety	Walnut
Barrel Length	27 inches	Trigger	Thumb
Overall Length	45 inches	Price	\$80.90; without sights \$60.05
Weight	9 pounds with sling		
Sights	Rear, Redfield no. 75 Micrometer, 1/4 minute		

Remington Model 521T



Caliber	.22	Overall Length	43 inches
Ammunition	.22 Long Rifle	Weight	About 7 pounds
Number of Shots	1	Sights	Rear, Lyman No. 57 S
Type of Loading	Single Shot or 6 shot magazine	Stock	micrometer with 1/4 minute
Type of Action	Bolt	Safety	clicks Front, Blade
Barrel Length	25 inches	Trigger	Walnut
		Price	Thumb

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ABOUT THE AUTHOR

W. Cleon Skousen is the
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speaker on the subject. His
book is based on sixteen years
of experience with the F.B.I.
During his five years at Brigh-
ham Young University as as-
sistant to the president and
as a professor, he completed
additional research and wrote
this book. He has lectured
throughout our country on
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fessional law enforcement of-
ficer, administrator, Chief
Skousen is married and is the
father of eight children.

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BRACKET OR SPOT MOUNTED

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- TRAFFIC TIMER
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- PORTABLE SCHOOL FLASHERS

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CORPORATION

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For further information circle #77 on R. S. Card

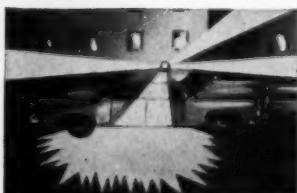
SIRENO
(TRADE MARK)

"SKY-LIGHTER"



NEW CONCEPT IN
WARNING LIGHTS

Combines the features of the Red Revolving Ray with
WHITE LIGHT in one compact unit.



Two high intensity WHITE SEALED BEAM BULBS revolve thru 360° — one is aimed up into the sky; the other down to illuminate the vehicle and ground.

Write Dept. 41 for FREE bulletin

SIRENO CO., INC.

214 WILLIAM ST., NEW YORK 38, N. Y.
Please send bulletin and information.

Name _____
Street _____
City _____

For further information circle #27 on R. S. Card

Remington "Rangemaster" Model 40-X



Caliber	.22	Stock	Selected Walnut, equipped with Mershon White Line Butt Plate (rubber) and adjustable bedding device
Ammunition	.22 Long Rifle only		
Number of Shots	1		
Type of Action	Bolt		Completely adjustable Standard with sights
Type of Loading	Single Shot	Trigger Price	(40-X-S1) \$152.75
Barrel Length	28 inches standard or heavy barrel		Standard without sights (40-X-S2) \$115.95
Stock Length	33 inches		Heavy Barrel with sights (40-X-H1) \$166.85
Overall Length	46 1/4 inches		Heavy Barrel without sights (40-X-H2) \$130.05
Weight	Standard—10 3/4 pounds		
Sights	Heavy—12 3/4 pounds		
	Rear, Redfield Olympic		
	comes with scope blocks		
	mounted. Front, Redfield		
	Olympic		

Winchester Model 69



Caliber	.22	Barrel Length	25 inches
Ammunition	.22 shorts or Long Rifle	Overall Length	42 inches
Number of Shots	1	Weight	About 5 1/2 pounds
Type of Loading	Single Shot or 5 shot magazine	Stock	American Walnut
Type of Action	Bolt	Sights	Rear, Winchester No. 80
		Price	Front, Winchester No. 97
			\$34.45

Winchester Model 75



Caliber	.22	Stock	American Walnut
Ammunition	.22 Long Rifle	Sights	Rear, Redfield No. 75
Number of Shots	1		HW Micrometer with 1/4 minute clicks Front, Winchester No. 105 A with 4 inserts
Type of Loading	Single shot or 5 shot magazine	Price	\$80.85 with sights
Type of Action	Bolt		\$59.95 without sights
Barrel Length	28 inches		
Overall Length	44 1/4 inches		
Weight	About 8 pounds 10 ounces		

Winchester Model 52

Caliber	.22	Type of Loading	Single Shot or 5 shot magazine
Ammunition	.22 Long Rifle	Type of Action	Bolt
Number of Shots	1		

**PROTECT YOURSELF
with this Fountain-Pen Type POCKET
TEAR GAS**

Device . . . \$15 VALUE

38 Special Cal.

\$5.95
with 1 shell

Additional shells
50c ea.



Specially Priced!

Extra protection in

police work or for personal

defense against purse snatchers,

robbers, muggers. Causes no permanent

injury. Heavy duty case of highly polished nickel

with handy spring-steel pocket clip.

Registered Colt Distributors

Suppliers for Official Police Equipment

PUBLIC SPORTS SHOPS, 11 S. 16th St., Phila. 2, Pa.

Send Check or Money Order. No COD's

Nickel Plated Peerless Type

HANDCUFFS

\$15.00 value

SPECIAL

\$7.95

For further information circle #296 on Readers Service Card



Barrel Length	26 1/2 inches to front of Sights	Numerous variations available. Equipped with scope blocks.
Overall Length	46 1/2 inches	Trigger Stock
Weight	Standard Barrel without Sights 9 1/2 pounds Heavy Barrel without Sights 11 pounds Bull Barrel without Sights 12 pounds	Price

Adjustable American Walnut Without Sights from \$115.95 to \$156.75 With Sights from \$147.25 to \$171.45

Section II Reloading Equipment

Great strides have been and are being made in the reloading field. It is possible now for departments to reload in quantity using a variety of safe and efficient equipment capable of supplying top quality ammunition at bargain prices. This can be done in volume for entire departmental training and qualification programs or it may be done by individual officers on a highly precise basis. Teams can develop their own special target loads to suit their particular needs. Reloading has a place in all training programs, teaching ballistics and supplying ammunition of fine quality.

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625 W. Lawrence Street
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Manufacturers of the Acme Loader

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Reloading equipment, shot shells for revolvers

Alcan Company, Inc.
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Special small pistol primer available to law enforcement at special net price of 5.95 per 1,000 NM-NC compound

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Beidling & Mui, Inc.
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Philipsburg, Pennsylvania

Straight Line Reloading Tools

Bellows & Son
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Wilcox, Pennsylvania

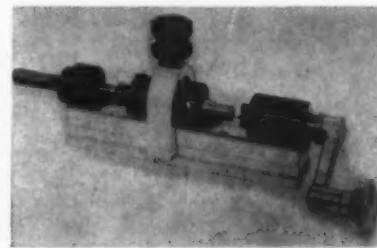
Biehler & Astels
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Bob's Rifle Clinic
1915 S. Staples
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N. T. Brian
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Shot Measure
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C. R. Specialty Co.
1400 Walnut
Kansas City 6, Missouri
Carbide Die & Mfg. Co.
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Some of the best dies that this editor has ever used

Cascade Cartridge, Inc.
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Primers

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Your men in uniform are required to carry guns and use them effectively when the occasion demands it. They need continuous practice. Recruits who need marksmanship training are being added to your force.

If the men in your organization are required to fire qualifying scores periodically, a planned schedule of training and firing will insure improvement. Organized training and competition are essential to every police unit.

• BENEFITS OF NRA AFFILIATION

National Rifle Association affiliation brings all the know-how of an experienced national organization to each unit. It helps you provide a complete year-round shooting program, such as:

1. Marksmanship Instructor Training.
2. Basic pistol and rifle instruction.
3. Qualification courses and awards.
4. League firing with awards for winning teams.
5. Eligibility to fire in NRA Registered and Approved Tournaments.
6. Free range construction plans.
7. Free consultation service through the NRA Firearms Information Service.
8. The privilege of using U. S. Government guns and equipment for practice.
9. Invitation to send instructors to special Police Marksmanship Training School at National Matches.



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Teaching young America to handle guns safely and accurately—sponsoring a civic program that will keep boys busy through healthful recreation—is a practical solution of how to win the everlasting friendship, respect and cooperation of tomorrow's citizens of your community—today! Through NRA trained instructors and community Junior clubs, millions of youngsters have been taught the fundamentals of good shooting, gun safety and responsible citizenship. Sponsoring an NRA Junior Shooting Club in your community will help more boys to learn safety, timing, coordination and the principles of citizenship.

WRITE TODAY FOR FREE PACKET CONTAINING DETAILS

NATIONAL RIFLE ASSOCIATION

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For further information circle #215 on Readers Service Card



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Coleman Mfg. Co.
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Finest Quality.
Used by Police,
Automobile Police,
Law Enforcement
Officers, & Institutes.
Made of finest
Chrome Plated
Steel. Has double
lock and two keys.
Reg. Price, \$9. Special Price \$4.95 p.p.
Genuine Leather Universal Carrying Case Available
EMERGENCY 3 COLOR FLASHLIGHT



A must for all Law Enforcement officers. Made of Heavy Chrome with Alnico Magnet that grips any metal surface. Gives strong beam in either red, green or white. The back is a red emergency Blinker.
Reg. \$4.95. Our Price \$1.95 p.p.
Send Check or M.O. No COD's. Satisfaction Guaranteed. Store hours 9 till 6 Daily.

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1000 RELOADS PER HOUR

ATTENTION: Users of the Star or Phelps Re却oader.

Installation of the "HULME AUTOMATIC CASE FEEDER" on your Star or Phelps Re却oader will increase reloads by 100% for .38 and .45 calibers. Easily self-installed.

15-Day Trial \$29.50

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For further information circle #43 on R. S. Card

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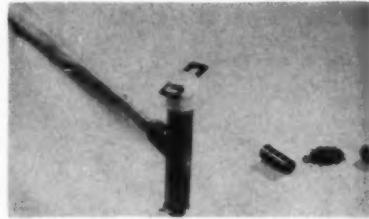
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Dies to make "Swaged Pistol Bullets" with or without zinc or copper bases. manufacturers of the A-D-E Loading Tools

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Gundersen Instrument Company
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NEW SPEED-TAB HOLSTER

Fits all popular Colt & S&W
2" barrel revolvers.

Designed for concealment and fast one motion draw. Flick of finger opens tab. Gun cannot fall out in scuffle. Quality made of top grain cowhide — black or tan.

Left Handed Model —
No Extra Charge

Orders shipped same day received.

Write for our police equipment catalog

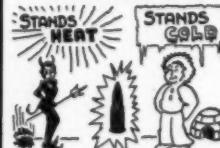


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THE ALL CLIMATE BULLET-LUBE THAT CUTS CLEAN!

SOLID or HOLLOW

Package of dozen — \$6.00 FOB
Police — 100 minimum — less 25%

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NITE GLO POLICE & CIVIL DEFENSE CAPE AND HAT BAND

Cape is tailored of washable long lasting Sanforized white twill with reflective tape.

\$8.95

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Slips on any size police hat.

\$1.00

Please send check or money order with orders of less than one dozen. Department quotations on request on Department letterhead.

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Reloading
Get the Best
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Fast Service

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Equipment for Law Enforcement

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Colt
Hi Standard
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Complete
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RELOADS 38 Spl. \$33.00 per M
Factory methods — your cases — RN or WC

PRIMER PRICES DOWN!!!
CCI — WINCHESTER — REMINGTON
AT NEW LOW PRICES . . . WRITE TODAY
ALL RELOADING SUPPLIES AVAILABLE
IMMEDIATELY

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201 WARBURTON YONKERS, N. Y.
• ALL GUNS TAKEN IN TRADE •

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FOR SALE: H & R Super Handcuffs. Push-thru bow, cannot become locked in pocket. Double-locking. Comply with U. S. Navy specs. Welded construction, free from sharp corners. Considered by many officers the most beautifully designed cuffs ever made. New, boxed, 2 keys. Last sold for \$15, now \$10 pp.

WILL BUY: Any old or obsolete handcuffs, thumblocks, legirons, Oregon Boots, neck collars, prisoners' shackles. Will pay cash or allow deduction on new cuffs.

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RELOADS 38 SPECIAL
SPL WADCUTTER
\$30.00
NOW **PER M**

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ALL INQUIRIES

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* Interchangeable Crowns, Colors & White
* Usable All Seasons • Can Be Dry Cleaned
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M. G. KANTOR & COMPANY
Price subject to change without notice.
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PICTURE every ACCIDENT on the spot



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Standard Kit \$3.00
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THE FORBES STAMP CO.
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USED SIRENS AT VERY LOW PRICES

available for a 60 day free trial.

Also have several good used 360 degree Revolving Red Lights, or Beacon Ray Lights.

If your present sirens are not loud enough trade them in on better and louder sirens.

Full information will be sent to you on request.

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The Frielich Spring Action Combat holster is designed for concealed wear. It is easy access, fast and efficient regular or cross-draw. Spring tension is adjustable. Special snap strap holds gun in scuffle. It still permits fast draw. Quality Tanned leather, tan or black.



barrel length	Without strap	With strap
2"	\$3.00	\$3.50
4"	3.50	4.00
5"	4.00	4.50

Shipped postpaid same day.
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For further information circle #74 on R. S. Card

B & W Lie Detector

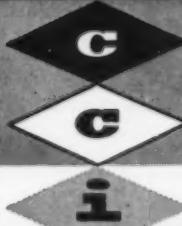
The modern means of
Instrumental Lie Detection



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SMALL **I** PISTOL

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now makes it possible
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a handy reference and guide.

Send \$2.25 to:

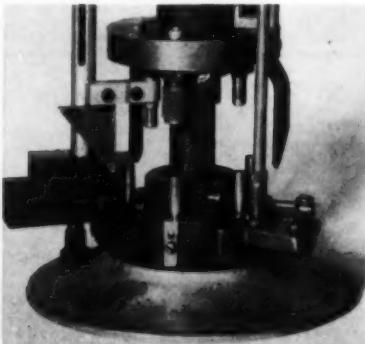
LAW AND ORDER, 72 West 45th St.,
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November, 1959

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Bullet Moulds of excellent quality
E. C. Herkner Co.
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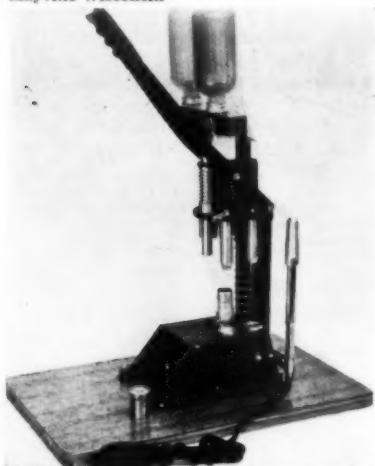


Case Feeder for the Star Reloader increases production by several 100%
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Lovell Reloader
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3871 Kirtland
Willoughby, Ohio
Multi-Case gauge

Mayville Engineering Co.
Mayville, Wisconsin



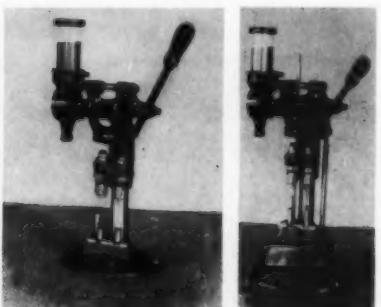
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The Potter Duplex Reloader and the Potter Electric Furnace, also a Lead Tester and Machine Rest for Pistols



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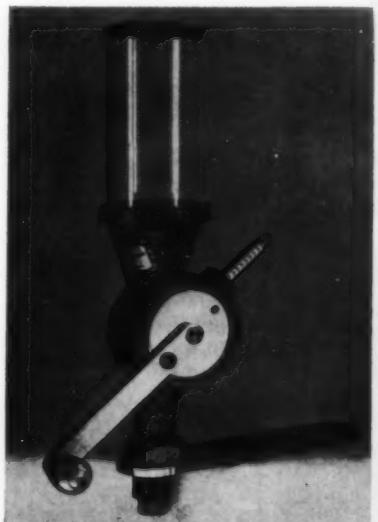
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Precision Tool & Gun Co.
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A division of General Sporting Goods Corp.

R. C. B. S. Gun & Die Shop
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Loading Tools and Dies of Top quality and workmanship R. C. B. S. has just moved into a new enlarged factory show room which shows what a good product and reputation can mean to customer and manufacturer



R.C.B.S., Powder Measure

Redding-Hunter Inc.
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The Redding powder scales, powder measures, reloading press and other excellent reloading tools

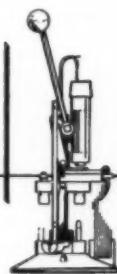
Rochester Lead Works
Rochester 8, New York
Leadwire

SABCO (Santa Anita Engineering Co.)
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Manufacturer of the SABCO Furnace, SABCO Precision Powder Measure and two new items, a Lubri-sizer and the new Utility Melting Pot. The Pot or furnace has a 20 pound capacity, just right for departmental casting

manufacturers of
Shooting and
Reloading Equipment



ORANGE 7-3695

Phelps Engineering Co. Inc.

487 MAIN STREET • EAST ORANGE, N. J.

November, 1959

TO: All Conscientious Police Chiefs

Dear Chief:

Nothing is more detrimental to departmental morale than the loss of a fellow officer's life. Nothing receives more notoriety than the wounding of innocent bystanders. These events are brought about by unfamiliarity with firearms or the lack of shooting ability. Thus, such disasters can be avoided.

Frequent practice with an abundance of ammunition along with competent instruction can result in a department of able marksmen confident in the use of their handguns. Such a department is an asset to any community. As you are aware, however, such practice requires large ammunition purchases that are often the stumbling block to every departmental firearms program. Factory ammunition is presently selling to departments at approximately seven cents per round. Production reloading can offer you a savings of over 70% or a maximum cost of two cents per round. The investment in a Phelps Turret reloader is quickly returned to you in this savings.

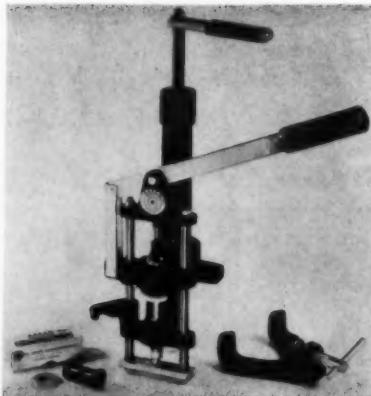
Production reloading with the Phelps Turret Reloader is rapid and SAFE. We have on the tool carefully engineered safety features that completely ELIMINATE double charging, skipping of primers, and accidental reversal of the shell holder plate. Operation of this reloader is simple and with it one man can easily produce approximately 500 rounds per hour while two men can double this amount.

For full information—free and with no obligation—write to me at the above address or circle number 277 on the Law and Order Reader Service card. Do it today as constant handgun practice is vital to the community and your department.

Sincerely yours,

John M. Phelps, President
Phelps Engineering Co., Inc.

For further information circle #277 on Readers Service Card



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6058 Dennison Street
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Tungsten-Carbide Dies guaranteed for
200,000 reloadings

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The Little Dripper
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Star Machine Works
418 10th Avenue
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Star Loading Machine, a complete cart-
ridge at each cycle of operation

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Powder Scales capable of weighing from
one-twentieth of a grain to 360 grains;
also one-tenth of a grain to 360 grains,
capacities 360 grains, 500 and 750 grains.
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Accuracy "perfecast" bullets available in
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Distributed by Wiesler Western Arms, and
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Grain Wadcutters, \$32.50 per thousand
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Zinc Alloy bullets of 40,000 P.S.I. tensile
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North Main Street
Raynham, Massachusetts
Lakeville Arms Company
Lakeville, Connecticut
Lassen Gun Shop
Suisunville, California
Markell Incorporated
2347 - 25th Avenue
San Francisco 16, California
Precision-Cast Bullets special prices to
departments

Modern Gun Shop Bullet Co.
Box 39
Hollydale, California
Northridge Bullet Co.
8562 Newcastle Avenue
Northridge, California
Swaged .38 Caliber Bullets
Nosler Partition Jacket Bullet
322 Weightman Street
Ashland, California
Precision Tool & Gun Co.
South Lansing, New York
Importer of A/B Norma Projektilfabrik,
Amotors, Sweden Ammunition

Reloading
P. O. Box 431
Tuckahoe, New York
Custom reloads, \$30.00 per thousand shot
loads available for game wardens and
riot work \$65.00 per m
Sierra Bullets Inc.
600 W. Whittier Blvd.
Whittier, California
R. B. Sisk
Iowa Park, Texas
Speer Products Co.
1023 Snake River Road
Lewiston, Idaho

Speer Reloading Manuals are a must for
the advanced as well as beginning re-
loader, deal mainly with sporting loads
but information is valuable. The Speer
Ballistic Calculator is a most important
aid



Ray C. Thompson
Box 216
Grand Marais 3, Minnesota
Western Alloy Co.
Box 643
North Hollywood, California
Western Drawn Products
2116 N. 10th Ave.
Tucson, Arizona

POWDER

B. E. Hodgden, Inc.
7710 West 63rd Street
Merriam, Kansas
Dealer in Military Type powders not
available thru any other source

E. I. Du Pont de Nemours
Wilmington, Delaware
Hercules Powder Company
Wilmington, Delaware

Section III Shooting Equipment

The variety of equipment available to shooters is almost endless. Aside from target shooting equipment the most important single item the police officer has is the holster. Unfortunately the current duty holster carried by most metropolitan, state, local departments is as antiquated as the horse and buggy. Fortunately there is a gradual change taking place. This change is to a more efficient holster such as those used by the U. S. Border Patrol. This is a safe, workable holster designed by William H. "Bill" Jordan, who is an Assistant Chief Patrol Inspector.

Fortunately the modern undercover holster is both serviceable and practical. Individual designers have kept up with the demand for faster and more effective undercover concealment with maximum availability for use.

SHOOTING KITS

E. Agamonti, Inc.
201 Warburton Avenue
Yonkers, New York
Ed's Own Pistol Carrying Case

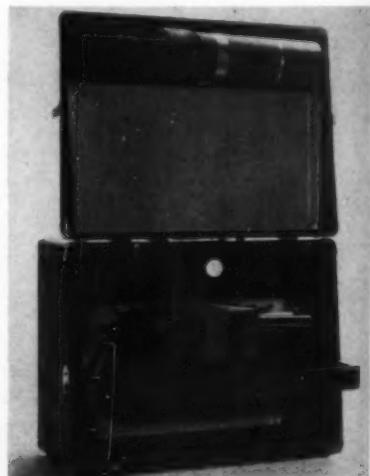
Bekelmyer's Shooting Supplies
513 Salinas Ave.
Laredo, Texas

Several types of pistol kits with special
features

Robert S. Frielich
396 Broome St.
New York 13, New York
The deluxe Roberts Shooters Case

General Luggage Corp.
16 Harding Street
Worcester 8, Massachusetts

Maker of "the General" deluxe hand gun
carrying cases



Gil Hebard Guns
Knoxville, Illinois
Specialists in competitive pistol shooting
supplies. One of the best catalogs available
at 50 cents. I personally would not
be without it

Pachmayr Gun Works
1220 S. Grand Avenue
Los Angeles, California
The Pachmayr carrying cases a reliable
favorite of many shooters

Julius Reiver Co.
4104 Market Street
Wilmington 99, Delaware
DO-it-yourself Reiver Gunbox Kits

Wiesler Western Arms, Inc.
205 Second Street
San Francisco 5, California
The Bantam Pistol Kit

SHOOTING GLASSES

Bausch & Lomb Optical Co.
635 St. Paul Street
Rochester 2, N. Y.

Famous Ray Ban Shooting Glasses

Betz Opticians
2 East 44th Street

New York 17, New York

Specialists in fitting shooting glasses

Mitchell's Shooting Glasses

Waynesville, Missouri

14 years experience, over 300,000 users of
9 models from \$13.50 to \$30.00, also from
your own prescription, used by National
Champions Joe Benner and Harry Reeves

SHOOTING CLOTHING

10-X Manufacturing Company

405 East 2nd Street

Des Moines 9, Iowa

Manufacturers of the famous 10-X

Shooting Jackets, a must for well dressed

pistol shooter or team

EAR VALVES (PLUGS)

Sigma Engineering Co.

1491 Vine Street

Los Angeles, California

Manufacturers of the Lee Sonic Ear-

Valv the best thing of its kind that this

Editor has been able to find

SPOTTING SCOPES

Bausch & Lomb Optical Co.

25010 Lomb Park

Rochester 2, New York

BALScope, 15x, 20x, 30x, 60x, (choice),

60mm objective lens, 100 yd. field 11.1 ft.,

relative brightness 3, eye relief 4 1/2",

weight 43 oz., closed length 16 1/2". Rapid

prismatic focusing, extra eyepieces \$25.00

price \$115.00

BALScope Jr., 20x, 40mm drawtube, 1,000

yd. field 75 ft., relative brightness 4, eye

relief 9.3mm, weight 24 oz., closed length

12 7/16". price \$44.75

Bray Optical Co.

3445 West First

Los Angeles 4, California

Brandon 70-22, 22x, 70mm objective lens,

100 yd. field 10.8 ft., relative brightness

10.1, eye relief 3 1/2", weight 24 oz., closed

length 14 1/4". price \$70.00

Bushnell Binoculars

1288 Bushnell Building

Pasadena, California

Bushnell SpaceMaster, 25x, 60 mm objec-

tive lens, 100 yd. field 10.5 ft., relative bright-

ness 3.6, eye relief 2 1/2", weight 20 oz.,

closed length 20 1/2". price \$65.00

45 degree model . . . same as above,

weight 43 oz., one inch longer.

price \$89.50

O. F. Mossberg & Sons, Inc.

New Haven 5

Connecticut

Mossberg Model A, 20x, 38mm objective

lens, 100 yd. field 7.5 ft., relative bright-

ness 3.6, eye relief 2 1/2", weight 20 oz.,

closed length 20 1/2". price \$29.95

Swift & Anderson, Inc.

932 Dorchester Avenue

Boston 25, Massachusetts

Junior Spotting Scope 20 x 40 scope

complete with dust caps, sun shade;

length 10.8 open, weight 1 lb. 11 oz.

price \$39.50

John Unertl Optical Co.

3551 East Street

Pittsburgh, Pa.

Unertl Straight Prismatic, 24x, 63.5mm

objective lens, 100 yd. field 7 ft. relative

brightness 6.96, eye relief 1 1/2", weight 40

oz., closed length 19". price \$80.00

Unertl Right Angle, as above

price \$96.00

Unertl, 20x, 54mm objective lens, 100 yd.

field 8.5 ft., relative brightness 7.3, eye

relief 1 1/2", weight 2 1/4 lbs., closed length

13 1/2". price \$64.00

Wollensak Optical Co.

850 Hudson Avenue

Rochester 21, New York

Wollensak Microscope, 20x, 50 mm objec-

tive lens, 100 yd. field 8.7 ft., relative

brightness 5.3, eye relief 1 1/2", weight 19

oz., closed length 9 inches. price \$49.75

Wollensak Drawtube 20x. price \$34.95

RANGE EQUIPMENT

T. H. Adamson

Box 150

Buffalo, Wyoming

Multi-Target Holder

Caswell Target Carriers

Box 344

Anoka, Minnesota

Indoor target carriers priced from \$38

to \$44



Get on the target fast and clear with Ray-Ban Shooting Glasses

Get on the target fast with specially de-
signed Ray-Ban Shooting Glasses . . .
and know that your eyes are protected
by impact-resistant lenses.

Kalichrome (yellow) lenses sharpen
detail on dull days and minimize haze
by filtering out blue light. Ray-Ban
Green lenses scientifically cut glare and
permit comfortable cool vision even in
brightest sunlight.

Made from top quality Bausch &
Lomb optical glass, heat toughened to
protect against eye injury, Ray-Ban
lenses are ground-and-polished-to-
curve for clear, undistorted edge-to-

edge vision. Genuine gold filled frames
are built to last a lifetime. Ask for them
by name wherever fine sun glasses are
sold. Ray-Ban—the most distinguished
name in sun glasses. Bausch & Lomb
Optical Co., Rochester 2, N. Y.

BAUSCH & LOMB

Ray-Ban®
SUN GLASSES

For further information circle #21 on Readers Service Card



PISTOL SHOOTERS!

*It's Ready! Big New Pistol Shooters'
Reference Book and Catalog.*

Don't miss this new catalog! Bigger and better than ever . . . 116 jam-packed
pages devoted exclusively to the competitive pistolman . . . over 450 illustrations
and articles by top shooting and reloading authorities Clark, McMillian,
Toney, Cartes, Jernier, White, Weston, Shockley, Gibbs, Hebard—these alone
worth many dollars if published in book form . . . National records . . . 2600
Club, etc. All the latest products and prices . . . hundreds of score improving
items and tips . . . Clark, Shockley, Pachmayr custom guns . . . Ruger, Ham-
merli, Hi Standard, Sauer, Remington guns . . .
The latest shooters' "Bible" and standard reference book. No catalog like it!
A MUST for competitive pistolmen, law enforcement men or anyone interested
in handgunning.

Double your money back guarantee if you don't agree it's the biggest pistol
shooting value ever for 50c. Mailed immediately in protective envelope . . .
POSTPAID 50c.

ORDER YOUR COPY NOW! Police Discount Schedule Included!

GIL HEBARD GUNS

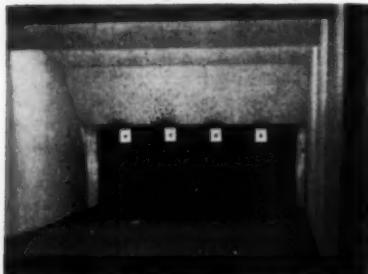
KNOXVILLE 4, ILLINOIS

For further information circle #217 on Readers Service Card

Dentam Corp.
P. O. Box 253
Tampa, Florida

Target turner and timer for precision control of pistol targets, electrically operated
Detroit Bullet Trap Co.
26000 Capital
Detroit 28, Michigan

Justly famous Detroit bullet traps, internationally known, made in grades to include .357 magnum bullet trap



McAvoy Target Equipment Co., Inc.
45 Van Winkle Avenue
Garfield, New Jersey



Designers and builders of outstanding range installations such as the FBI's Quantico Academy with famed Hogan's Alley

Radition Furnace Corp.

Benton Harbor

Michigan

Bullet Traps

Steiner Bros., Inc.

33-22 Northern Blvd.

Long Island City, New York

Range Clocks

Perlin

Illinois

Bullet Traps

TARGETS

Colt's Patent Fire Arms Mfg. Co., Inc.

Hartford 15, Connecticut

Famous and much used Colt Police Silhouette Target



Chic Gaylord Targets
312 West 47th Street
New York 36, New York

A new series of targets designed to reproduce combat conditions at 60 feet, target is scaled down so that shooting is done at 15 feet

National Target Co., Inc.
1255 25th Street, N. W.
Washington, D. C.

Official N.R.A. Targets a must for competitive shooting at a registered match, or for any official record

New Trenton Targets
6930 Colerain
Cincinnati 24, Ohio



Rig Products Co.
502 Franklin Street
Oregon, Illinois

Official N.R.A. target scoring gauges in 22, 30, 38 and 45 calibers

Sentinel Targets
Neene
New Jersey
Targets

Stoeger Arms Corporation
45-18 Court Square
Long Island City 1, N. Y.

Targets of all types, for all occasions

Wisler Western Arms
205 Second Street
San Francisco 5, California
West coast manufacturer and distributor of N.R.A. targets

Boyt Co.
Des Moines 5, Iowa

Brauer Brothers Mfg. Co.
817 North 17th Street
St. Louis, Missouri

Burgess Leather Co.
Grafton, Massachusetts

J. M. Buchheimer Co.

Frederick, Maryland

Towson quality since 1884. Complete leather equipment suppliers to departments

Colorado Saddlery Co.
1424 Market Street
Denver 2, Colorado

Con-Pro Corp.
Fond du Lac, Wisconsin

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75 Mayfair Avenue
West Hemstead, New York



Capt. Crosby's "Kwik-Klip" Holster

Eugene DeMayo & Sons
376 East 147th Street

Bronx 55, New York

Manufacturers of the Sure Lock Police Holster, known to the Police since 1913

Folsom Arms Co., Inc.

312 Broadway

New York, New York

Freeway Gun Shop

2402 Telephone Road

Houston, Texas

Chic Gaylord Holsters

312 West 47th Street

New York 36, New York

Manufacturers and Designers of Uniform Holsters, Off Duty Concealment Holsters



Georg Enterprises
3009 S. Laurel
Port Angeles, Washington



Law and Order

Capt. A. H. Hardy
513 N. Ardon Dr.
Beverly Hills, California

Herman H. Heiser
1024 Cherokee Street
Denver 4, Colorado

Don Hume Leathergoods
Law Enforcement Equipment
8772 Van Horn Street
La Mesa, California

Don Hume is gaining fame as the manufacturer of the Jordan Holster designed by Assistant Chief Patrol Inspector William H. Jordan of the U.S. Border Patrol

The Hunter Co.
P. O. Box 94, Highland Street
Denver 11, Colorado

Kolpin Bro., Co., Inc.
121 South Pearl Street
Berlin, Wisconsin

Cruisers Scabbard for carrying shotguns in patrol cars

Langlitz Leather Co.
633 S. E. Morrison St.
Portland, Oregon

The George Lawrence Co.
306 S. W. First Ave.
Portland 4, Oregon
Manufacturers of F.B.I. type. Plain and Carved Holsters. Flower engraved, \$9.30



Ken Medley Holsters
14542 Dickens
Sherman Oaks, California

Brush Holster

J. H. Martin (Berns-Martin)
Calhoun City, Mississippi

Manufacturers of the much copied but never equaled Berns-Martin shoulder holster

Marwyn Company

7 Centre Market Place
New York 13, New York

Midstate Manufacturing Co.

1131 South Bannock

Denver, Colorado

Manufacturer of the Couper Safety Special holster made of plastic covered aluminum

W. T. Moyers

Ernest & Cramer Building

Denver, Colorado

Moyer's Invisible Holster
S. D. Myers Saddlery Co.

5030 Alameda Blvd.

El Paso, Texas

Dale Myers Co.

Box 7292

El Paso, Texas

Manufacturer of Ken Medley Holsters

National Sports Co.
19 East McWilliams Street
Fond du Lac, Wisconsin

Red Head Brand Co.
4311 Belmont
Chicago 41, Illinois

R. E. Roseberry Leather Goods
810 W. 33rd Street
Anderson, Indiana

San Francisco Gun Exchange
91 Fourth Street
San Francisco 3, California
Manufacturer of the Handi-Holster

Service Manufacturing Co., Inc.
155 Saw Mill River Road
Yonkers, New York

Stearns Mfg. Co.
St. Cloud, Minnesota

The Smith-Worthington Saddlery Co.
8 Sigourney Street
Hartford 1, Connecticut

Erl Svendsen Inc.
4245 N. Harlem
Chicago 31, Illinois

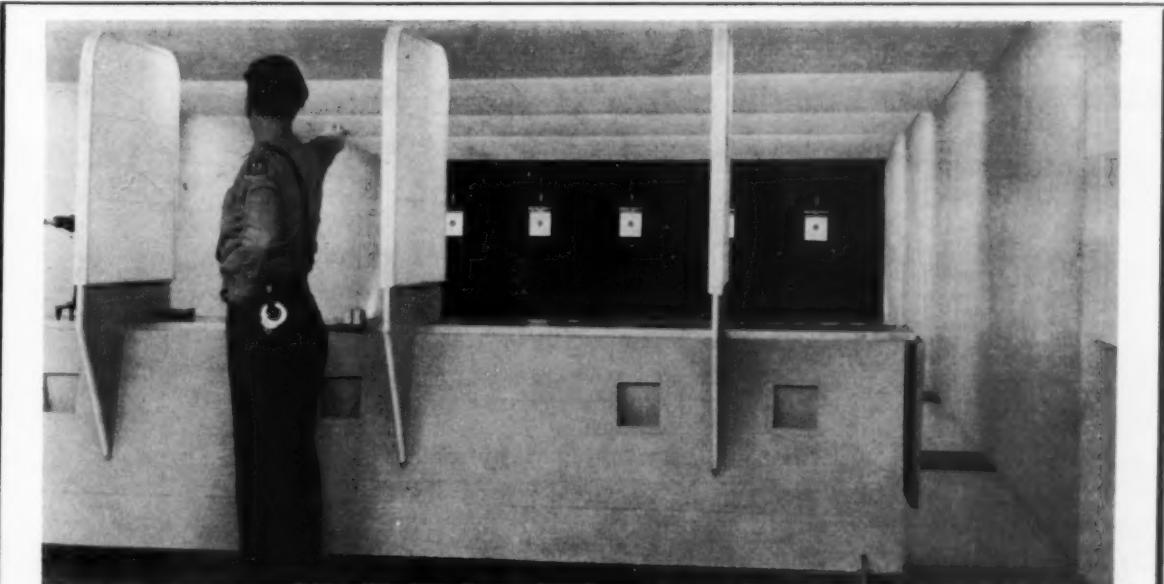
McAVOY ELECTRONIC DUELING TARGETS

Used by Law Enforcement Agencies
Federal, State and Municipal

Targets are synchronized electronically so as to provide a means of scoring and determining reaction time of two individuals competing against one another under surprised conditions. Complete package consisting of dual oscillating target holders, targets, actuating mechanism, vacuum pump and electronic control device. One of the many target systems manufactured by the McAvoy Co. Write for catalog and complete specifications.

McAVOY TARGET EQUIPMENT CO., INC.
Serving Law Enforcement Agencies for over 30 years.
23 GRAND ST. GARFIELD, N. J.

For further information circle #220 on Readers Service Card



Shown above is the five station Detroit Bullet Trap designed and built for the Warren Police Department, Warren, Michigan. For assistance in planning your indoor range, write for complete information without obligation.

DETROIT BULLET TRAP CO.



9447 Seymour
SCHILLER PARK, ILLINOIS

Tandy Leather Co.
P. O. Box 791
Fort Worth, Texas
Do-it-Yourself Holster Kits
Western Mfg. Co.
149 9th Street
San Francisco, California
Woodland Sporting Goods
Box 415
Johnstown, New York

GRIPS

Charles E. Adams
3504 Shadeland Avenue
Pittsburgh 12, Pa.
Custom grips \$12.00 and up
Beckelbymers Shooting Supplies
513 Salinas Avenue
Laredo, Texas
Custom-made pistol grips
Contour Grip Co.
Box 1228 Church Street Station
New York, N. Y.
Duel Duty Grips
5320 Miller Avenue
Gary 5, Indiana
A plastic grip with a compartment holding 6 extra cartridges
Fitz
P. O. Box 49702
Los Angeles 49, California
Handgun grips of walnut, cherry, rose-wood and molded Duramite
Gun Art
359 Bergen Avenue
Lakewood, New Jersey
Herrett's
Box 741
Twin Falls, Idaho



Custom carved grips for all guns, delivery in 10 to 15 days
A prerequisite for championship shooting

Nils O. Hultgren—Wood Carver
4677 Cass Street
San Diego 9, California
Ralph E. Laffoley
937 Main Street
Melrose, Massachusetts
Custom Gunstocks, Carving and Inlays

Marwyn Company
7 Centre Market Place
New York, New York
Oversize grip for Chiefs Special

Mershon Co. Division of Firearms Accessories
Inc.
1230 South Grand Avenue
Los Angeles 15, California

Mershon "Sure Grip" adapter, fit your gun to your hand. Custom Walnut Grips and "10 Point" Grips

Sanderson Custom Pistol Stocks
17695 Fenton
Detroit, Michigan
Top quality and workmanship in custom pistol stocks, shaped to each individual's specifications.

Service Manufacturing Co.
155 Saw Mill River Rd.
Yonkers, New York

Southwest Cutlery and Mfg. Co.
1307 Olympic Blvd.
Montebello, California
Pointer Stocks

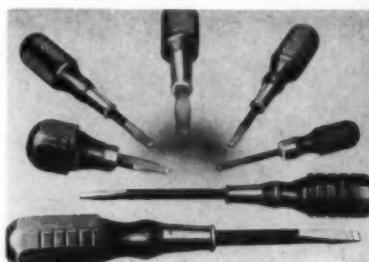
Sports, Inc.
5501 Broadway
Chicago 40, Illinois
Franzite Grips
Bob Winger
717 Broad Street
Montoursville, Pa.
Semi-Finished Revolver and Pistol Grips
Robert Wood Products
14705 N. E. Sandy Blvd.
Portland 20, Oregon
Dan Wright
245 West 16th Street
Erie, Pennsylvania

M. H. Canjar
4476 Pennsylvania
Denver, Colorado
Trigger mechanisms
Dan's Gun Shop
815 Buchanan
Hutchinson, Kansas
Checkering supplies, cradles, etc.
Dayton-Traister Co.
34 SE 86th Avenue
Portland 15, Oregon
Triggers
Dem-Bart Co.
3333 N. Grove Street
Tacoma 7, Washington
Checkering tools

F. K. Elliot
P. O. Box 465
Ramona, California
Forster Bros.
Lanark, Illinois
Keith Francis
Box 215
Rivera, California
Fuller Tool Co.
3950 11 Mile Road
Berkley, Michigan
Grace Metal Products
Elk Rapids, Michigan
Hollow ground screw drivers and drifts

Section V Pistolsmiths

American Gun Works
10348 Columbus
San Fernando, California
Short actions for Colt Guns Sights and accuracy work
A. E. Berdon
422 E. Belmar
Lakeland, Florida
Accuracy work
G. C. Bumbaugh
933 Greenfield S. W.
Canton, Ohio
.22 caliber conversions
F. Bob Chow
3185 Mission Street
San Francisco 10, California
.45 A.C.P. Accuracy Work
Custom Gunshop
33 Herning Avenue
Crawford, New Jersey
Alton S. Dinan Jr.
P. O. Box 674
Canan, Connecticut
Accuracy Work
"Pop" Elmer
Rural 1, Box 63
Joplin, Missouri
Accuracy Work
Ellison Arms Co.
1225 Webb
Detroit, Michigan
Giles' 45 Shop
Rt. 1, Box 41 A
Odessa, Florida
.45 Accuracy work, Sights, Super .38 Conversions Custom Rugers. Gertrude Backstrom the Woman's National Pistol Champion uses Giles' worked guns exclusively
Gun Re Blu
Biltmore 1, North California
Gold, Silver and Nickel Plating
The Gunsmith
P. O. Box 4248
Shreveport, Louisiana
Accuracy Work
Jesse E. Harpe
913 Tampa Street
Tampa, Florida
Accuracy work
C. R. McCashland
Box 57
Hinton, West Virginia
Accuracy work
Micro Sight Co.
242 Harbor Blvd.
Belmont, California
Sights and sight installation, accuracy work
Pachmayr Gun Works
1220 South Grand Avenue
Los Angeles 15, California
Accuracy work
R. L. Shockey
916 West London
El Reno, Oklahoma
Guaranteed Accuracy work



H & M Tool Co.
24062 Orchard Lake Road
Farmington, Michigan
Hagen Engineering Co.
3743 West 61st Street
Chicago 29, Illinois
Heathcoat Corporation
Springfield 1, Massachusetts
Bluing equipment
Lakeside Steel Improvement Co.
Cleveland 14, Ohio
Heat Treatment
Viggo Miller
4340 Charles Street
Omaha, Nebraska
Triggers
Frank Mittermeier
3577 East Tremont
New York 65, New York
Imported tools
New catalog available, features chamber cast metal that is excellent
Palmeren
8383 South Chicago Avenue
Chicago, Illinois
Vises etc.
C. R. Pederson & Son
Ludington, Michigan
Raton Gun Shop
110 N. First
Raton, New Mexico
Redford Reamer Co.
Box 4663
Detroit 19, Michigan
Shaw's Checkering Service
9311 Cellini Avenue
Garden Grove, California
Schmidt Precision Products
Rural 1, Box 150
Saugus 1, California
Raspas
Timken Roller Bearing Co.
Steel Sales Dept.
Canton, Ohio
Barrel blanks
Ed Turek Gun Specialties
Box 185
Garden Grove, California
Inlays
Twin City Steel Treating Co.
1114 S. Third Street
Minneapolis 15, Minnesota
Heat Treatment
Warner Products
Baldwinsville 1, New York
Checkering tools
Will-Burt Co.
Box 600
Orville, Ohio
Vises

Section VI Gunsmithing Supplies

Alamo Heat Treating Co.
P. O. Box 7081
Houston 8, Texas
Heat Treatment and graver's tools
Bennett Gun Works
550 Delaware
Delmar, New York
W. E. Brownell
925 Donnmoyer
South Bend 14, Indiana
Checkering tools
Bob Brownell
Montezuma, Iowa
A most complete service for supplies, special products include Aloxo Black for Aluminum and Opho-Blue for Arms. Latest is Acraglas bedding compound . . . catalog on official request
C. D. Cahoon
Boxford, Massachusetts
Stock inlays

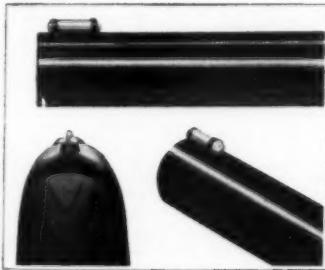
SIGHTS

Burton Arms Co.
2996 East 72nd Street
Cleveland, Ohio
Rough service sights and ramp sights



Christy Gun Works
Sacramento 16, California
Dockendorff & Company, Inc.
84 Minturn Road
Bridgeport, Connecticut
Firearm Development Laboratories
P. O. Box 25
Duarte, California
"Wondersight" micrometer sight for
Smith & Wesson revolvers

Ithaca Gun Co.
1233 Lake St.
Ithaca, N. Y.



ITHACA RAYBAR SIGHT

Merit Gun Sight Co.
6444 Monadnock Way
Oakland 5, California
Micro Sight Co.
242 Harbor Blvd.
Belmont, California
The Micro Sight for revolvers and automatics
Original Sight Exchange
Paoli, Pennsylvania
Redfield Gun Sight Co.
3315 Gilpin
Denver 5, Colorado
Williams Gun Sight Co.
7206 Lapeer Rd.
Davidson 18, Michigan

Section VII Gun Engravers



November, 1959

DEPARTMENTAL GUNSMITHS . . . SERIOUS HOBBYISTS . . .



BOB BROWNELL'S, Corner Main & Third, Montezuma, Iowa

For further information circle #122 on Readers Service Card

Dan Clark
427 Crawford St.
Norman, Oklahoma

Adam David
1513 Trinity Place, N.W.
Canton 9, Ohio
Custom engraving from \$35.00 up on all types of firearms

Joseph Fugger
c/o Griffin Howe
202 East 44th St.
New York 17, N. Y.

Arnold Griebel
4724 North Keystone Ave.
Chicago, Ill.

L. C. Hoyt
321 East Minnesota Street
Indianapolis, Ind.

Charles H. Jerred
853 W. 1st St.
Fulton, N. Y.
Engraving, Gold animals, signatures, monograms, etc. Flat or high relief at reasonable prices; guaranteed workmanship

John H. Murphy
427 N. Michigan
Saginaw, Michigan

Puchmayr Gun Works Inc.
1220 S. Grand Avenue
Los Angeles 15, California

E. C. Prudhomme
305 Ward Bldg.
Shreveport, La.
Gun engraving—\$35.00 to \$2,000 and up. Gold, silver and platinum inlays. Scenes cut in steel. Fine engraving on fine guns. Gold, silver, nickel and chrome plating

Rex Firearms Co., Inc.
137 East 57th Street
New York 22, New York
Engraved Smith & Wesson guns

John R. Rohner
718 South Summit
Iowa City, Iowa

R. Bunce
Iliion
New York

Woodford "Woodie" Ward
Rt. 1, Box 927
Silsbee, Texas

Floyd E. Warren
R. D. #3
Cortland, Ohio

John E. Warren
Shurtliff Road
Eastham, Massachusetts

Alvin A. White
72 Verndale Avenue
Attleboro, Massachusetts

In our new catalog you'll find everything from A to Z (Abrasives to Zebra wood) you will ever need for all the many phases of gun work . . . gun bluing solutions of many kinds . . . gunsmithing tools and accessories from tools to finish . . . hand tools, fixtures, and jigs . . . all popular scopes and mounts; iron sights for rifles and shotguns . . . High-Standards and Ruger pistols . . . parts and tools from German Craftsmen . . . technical dope on each sight, scope and mount carried . . . loading tools and dies and how to order parts, powder measures and scales . . . shot and wads in bulk and small lots.

As a matter of fact, men, if you do any kind of work (professional or gunnut) on guns, our catalog is a personalized book especially for you. Or, if you sell loading tools and components, scopes, guns, etc., plates and targets, rifles, or do loading for yourself or groups, our catalog is for you. Beautifully covered in eye-catching colors, you'll be proud to have it on your counter for your customers to leaf through—or proud of it close to your workbench as an ever-ready reference of where to buy those things you need from day to day.

The most compact and only catalog to bring gunsmithing to the professional status it deserves.

Ordered on your letterhead—free. To those who want to add to their collection: a half buck.

**Section VIII
Dealers, Jobbers and Distributors**

Ed Agramonte, Inc.
201 Warburton Avenue
Yonkers, New York
Dealer, Jobber and Distributor, Ed's Own Products

American Munitions Co.
1701 West Hubbard Street
Chicago 22, Illinois
Manufacturer, Distributor, Jobber

Aurand's For Sports Inc.
229 East Third
Lewistown, Pennsylvania
Jobber and Distributor

Badger Shooters Supply
Owen 98
Wisconsin
Bayonne Enterprise
184 West 3rd Street
Bayonne, New Jersey
Beckelbymer's Shooting Supplies
513 Sillinas Avenue
Laredo, Texas
Dealer, Jobber, Distributor

Bob Brownell
Montezuma, Iowa
Jobber and Distributor

Custom Products Corp.
606 Lindley Street
Bridgeport 6, Connecticut
Charles Daly, Inc.
Zone 55
Elmsford, New York
Jobber

Eugene De Mayo & Sons
376 East 147th Street
Bronx 5, New York
Dealer, Manufacturer

Diamond Police Equipment Co.
297 Main Street
Manchester, Connecticut

Firearms International Corp.
Washington 22, D. C.
Dealer and Jobber, Distributor

Plaig's Lodge
Millvale, Pennsylvania
Dealer

Al Freeland
3737 14th Avenue
Rock Island, Illinois
Dealer, Jobber and Distributor

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Lundberg Laboratories
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San Francisco, California

Marwyn Company
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Dealer

Mershon Co., Inc.
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Glendale 5, California
Dealer

Numrich Arms Co.
West Hurley 1, New York
Dealer—Parts—Machine guns

P. J. O'Hare
552 Irvington Avenue
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Dealer

The Original Sight—Exchange Co.
Paoli, Pennsylvania
Dealer, Jobber and Distributor

Padgett Brothers Co.
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Dallas, Texas
Jobbers

Parker Distributors
3516 White Plains Road
New York 67, N. Y.

Patchogue Sport Shop
22 West Main Street
Patchogue, New York

Louis J. Porter Co.
25 W. Clements Bridge Road
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Precision Tool and Gun
Ithaca, New York
Wholesale Distributor

Rex Firearms Inc.
137 East 57th Street
New York 22, N. Y.
Distributor

B. Y. Rolf Hardware
624 Monmouth Street
Newport, Kentucky

Scaramuzzo & Sons
801 South Halsted Street
Chicago 7, Illinois

Sports Inc.
5501 North Broadway
Chicago 49, Illinois

Stoeger Arms Corporation
45-18 Court Square
Long Island City 1, New York
Dealer, Jobber and Distributor

N. F. Strobe Gun Works
5404 Marlboro Pike
Washington 27, D. C.
Dealer

Tigars Sporting Goods Inc.
15 King Street
Troy, New York
Dealer, distributor

The Trading Post
W. Main Road, Route 5
Batavia, N. Y.

Warner Hardware Co.
13 South 6th Street
Minneapolis, Minn.

Warshall's
First & Madison
Seattle 4, Washington
Dealer and Jobber

Was-DeN Guns & Shooting Equipment
2121 Main Street
Northampton, Pennsylvania
Dealer, Jobber, Distributor

Williams Gun Sight Co.
7300 Lapeer Road
Davison 18, Michigan
Dealer and Distributor

Wisler Western Arms, Inc.
205 Second Street
San Francisco 5, California
Dealer

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Section IX Miscellaneous

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David Maxham
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Merlo Custom Reload Service
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Great Falls, Mont.
F. H. Miles
Box 224
Bedford, Va.
Bob Moody
1016 N. Warren
Helena, Mont.
Moulton's Reloading Service
P. O. Box 6152
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Robert Pomeroy
45 Wyoming
Waterbury, Conn.
Ray's Custom Loads
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El Cajon, Calif.
Reloading Service
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Washington, N. J.
Star Loading Service
Lakeville, Conn.
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Ashland, Ohio
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TRAINING

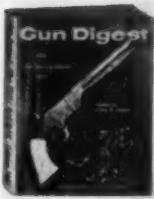
The National Rifle Association of America
1600 Rhode Island Avenue, N. W.
Washington, D. C.

Telephone District 7-3412

The National Rifle Association offers a complete service for departments interested in departmental training or junior P.A.L. rifle programs. Through the association it is possible to obtain plant, instruction books, charts, affiliation of a Junior Club or a departmental club with the N.R.A. brings government assistance in the form of equipment and other materials. Departmental club membership is now achieved with an absolute minimum of paper work.

November, 1959

The Gun Digest edited by John T. Amber published by the Gun Digest Company, 925 W. Jackson Blvd., Chicago 7, Ill. Now in its 14th annual edition it is a store house of current arms information plus interesting articles.



Gil Hebard Guns 1959-1960 is a catalog published by Gil Hebard of Knoxville, Illinois. To my way of thinking its 112 pages are a store house of information. More than worth the 50 cents asked for it. For a departmental team or competitive pistol shooter it is a source of equipment as well as information. There are 31 pages devoted to informative articles written by the top shooters in this country.

The Shooter's Bible, the Stoeger catalog published by the Stoeger Arms Corporation

507 Fifth Avenue

New York 17, N. Y.

its manufacturers' parts section is extremely helpful

Williams Shooters catalog No. 10 ('59-'60) published by Williams Gun Sight Co.

Davidson, Michigan

This is an excellent catalog for the shooter and contains much data that can be useful to departments.

Monthly Publications

The American Rifleman published by the National Rifle Association of America

1600 Rhode Island Ave. N. W.
Washington 6, D. C.

\$5.00 per year

The Handgunner published monthly by National Bench Revolver Association

59 Alvin Street
Springfield, Massachusetts

\$3.50 per year

Precision Shooting published monthly by National Bench Rest Shooters Assn. Inc.

P. H. Teachout Editor
85 Eastern Avenue
St. Johnsbury, Vt.

Manuals on Handloading

Handbook for Shooters and Reloaders \$3.00 published by P. O. Ackley

Murray, Utah

A manual published in April 1958 by Ackley who is a top custom rifle maker illustrates 114 cartridges; minimum chamber dimensions are given for 96; 150 cartridges are described. While written primarily for the Wildcat cartridge fan the manual has a great deal of valuable general information.

Belding and Mull Handbook No. 37 \$1.50 published by Belding and Mull

Philipsburg, Pa.

This edition of the B & M handbook was published in 1957 and contains 145 pages of handloading data and information.

Lyman Ammunition Reloading Handbook

41st edition \$2.00 published by the Lyman Gun Sight Corporation

Middlefield, Conn.

This is the famed Ideal Handbook which has about 200 pages of the best how to illustrations and data available anywhere. It can only be classed as an absolute necessity in any reference listing.

Reference

Annual Publications and Catalogues

Bob Brownell's Catalog published by Bob Brownell, Montezuma, Iowa

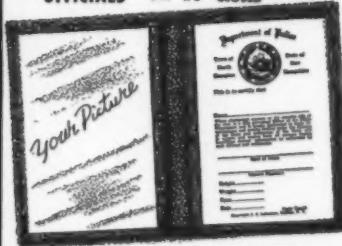
An indispensable source for the departmental gunsmith

Handbook of Cast Bullets \$2.00 published by the Lyman Gun Sight Corporation

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For further information circle #7 on R. S. Card

ual aside from being an invaluable source of information for the reloader on the specific phase of bullet casting, is extremely interesting reading and once started is difficult to put down. When referring to its pages allow time for browsing.



Reloading Information from the American Rifleman—volume 1 and volume 2 .75 each published by the National Rifle Association of America.

1600 Rhode Island Ave. N. W. Washington 6, D. C.

These are helpful manuals giving data published in former issues of the American Rifleman. A handy source for those without a back issue file of the Rifleman.

Speer Reloading Manual for Commercial Rifle and Pistol Cartridges No. 3

Speer Reloading Manual for Wildcat Cartridges Number 4

These two manuals priced at \$2.75 each are revisions of the first two Speer manuals which these now replace. Number 3 contains a section on reloading for handguns written by Ken Wyatt; this section is well done and accurate. The balance of the data in Number 3 and the data in Number 4 are interesting, informative and helpful to those who reload. In conjunction with the Speer Ballistics Calculator (\$1.00) they are excellent tools for the serious reloader.

Texts

Principles and Practice of Loading Ammunition

by Lt. Col. Earl Naramore
published by T. G. Samworth, Georgetown, S. C.

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For further information circle #118 on R. S. Card

Complete Guide to Handloading

by Phil Sharpe
published by Funk & Wagnalls, N. Y. C.
This is truly the bible of the handloader, now in the 2nd revision of the third edition. It is the best text to be had, it has been the absolute authority since the first edition was published 21 years ago.

Why Not Load Your Own?

by Col. Townsend Whelen
published by Combat Forces Press, Washington, D. C. Now in the fourth revised and enlarged edition. Col. Whelen's work is outstanding for its easily understood and accurate text. Col. Whelen is the dean of firearms writers, and as such his writing is clear and uncomplicated. All of his writings are highly recommended.

Everyday Ballistics

by Charles S. Cummings, II
published by Stackpole, Harrisburg, Pa.
A practical work written in non-technical language for the average person, it covers principles and common ballistic problems.

The Bullet's Flight

by F. W. Mann
published by Standard Publications, Huntington, W. Va.
A classic which needs no recommendation.

Small Arms Design and Ballistics

by Col. Townsend Whelen
published by T. G. Samworth, Georgetown, S. C.
A two volume work that is considered standard. Volume 1 concerns operation, functioning, design and related topics; volume 2 covers ballistics both interior and exterior

Selected Texts on Firearms and Firearms Identification

Principles of Firearms

by Charles E. Balleisen
published by John Wiley & Sons, N. Y. C.
For those with an inquiring mind as to how guns work, this volume discusses and illustrates trigger and sear mechanisms, automatic weapons systems, functions and cartridge feed methods as well as exterior ballistics.

Firearms Investigation, Identification and Evidence

by Hatcher, Jury and Weiler
published by Stackpole Co., Harrisburg, Pa.

This is an important text of great value which is a necessary reference for all concerned with firearms identification in law enforcement.

The Identification of Firearms and Forensic Ballistics

by G. Burrard
published by Herbert Jenkins, London, England
A criminal-legal text written with an English or Continental slant. Considered a standard

The Gun Collectors' Handbook of Values

by C. E. Chapel
published by Coward McCann, N. Y. C.
A text that can aid in placing a value on stolen arms of the collector type

Experiments of a Handgunner

by Walter F. Roper
published by Stackpole, Harrisburg, Pa.
This is a good text just to read. It gives a clear picture of the work necessary in the design and construction of pistols and revolvers. The data on pistol grips is excellent.

Cartridges for Collectors Vol. I

\$7.50
Cartridges for Collectors Vol. II

\$7.50
by Fred A. Datig
published by Fadco, Beverly Hills, California

Published in 1956 and 1958 both with 176 pages, these two books are good references. Vol. I contains lists and illustrations of 300 centerfire cartridges, with bullet weights, muzzle velocities and so forth. Vol. II contains errata sheets for Vol. I plus listings, illustrations and description of miscellaneous types plus metric, British and U. S. rimfire.

The Luger Pistol

\$8.50
by Fred A. Datig
published by Fadco, Beverly Hills, California

A revised and enlarged edition of an earlier edition by Datig, this new edition does a more comprehensive job than the early edition. A good text on a common weapon frequently encountered by police

Walther Pistols

\$3.00
by W. H. B. Smith
published by the Stackpole Co., Harrisburg, Pa.

An excellent reference on earlier Walther pistols, includes data on stripping, ammunition and operation. It is a great assist in understanding Walther pistols.

Centerfire Metric Pistol and Revolver Cartridges and American and British Pistol and Revolver Cartridges

by H. P. White and D. B. Munhill
published by Sportman's Press, Washington, D. C.

A two set volume of great value covering all commercial handgun cartridges, their measurements, ballistics and history.

An introduction to Tool Marks, Firearms and the Striograph

by J. E. Davis
published by C. C. Thomas, Springfield, Illinois

This is a text considering the potential value of the identification features revealed by the use of the striograph. The author also shows the correlation between the usual firearms identification procedures and tool-mark work

Identification of Firearms

by J. C. Gunther and C. O. Gunther
published by John Wiley & Sons, Inc.
This is an out-of-print work no longer available through normal channels but its value is great and well worth the trouble to obtain

N.R.A. Book of Small Arms—Volume 1: Volume 2 Rifles

by W. H. B. Smith
published by Stackpole Co., Harrisburg, Pa.
An invaluable combination with detailed data on each weapon

Small Arms of the World

by W. H. B. Smith
published by Military Service Publishing Co.
This volume is now in its 5th edition revised and enlarged and has gone through 12 printings in its various editions to date. It has great value when called upon to work on war trophies

Scientific Investigation and Physical Evidence

A Handbook for Investigators \$8.50
by Leland V. Jones
published by C. C. Thomas, Springfield, Ill.

This is a new text in the field; it contains a rather technical section—firearms identification. However the material is presented in a clear manner so that the rookie reader will find it informative.

Gunsmithing

The Modern Gunsmith 2 Vols. \$15.00
by James V. Howe
published by Funk and Wagnalls

This is a two volume classic of over 900 pages and 300 illustrations found in every serious collection of gunsmithing references.

Professional Gunsmithing \$6.00
by W. J. Howe
published by Samworth, Georgetown, S. C.

Also an important text that covers repair and alteration in clear concise terms. Walter Howe knows his subject well and is presently the editor of The American Rifleman.

Encyclopedia of Modern Firearms Parts & Assembly, Volume 1 \$17.00
published by Bob Brownell, Montezuma, Iowa

This is the newest text in the field, having just been published and it is a real jewel. The material is comprehensive, all guns being currently manufactured are illustrated and full technical information concerning them is listed. There are 1600 illustrations, line drawings, exploded views, blue prints, sketches and photographs. The encyclopedia is done with the usual Bob Brownell thoroughness and accuracy. The encyclopedia is also available in loose leaf form at \$16.00. A special binder is priced at \$5.25.



There are a great number of other works of importance which space does not permit listing. It is hoped that the list may be expanded in future Weapon-Wise Gun Guides. Publishers are asked to send review copies to:

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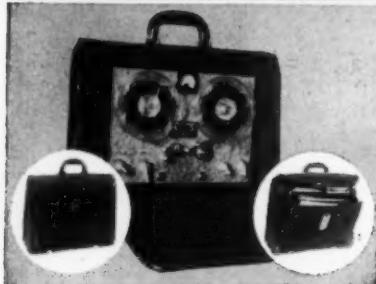
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For further information circle #17 on R. S. Card

A list of manufacturers and importers of guns listed in the Sixth Annual Weapon-Wise Gun Guide.

Astra	Firearms International 4837 Kerby Hill Road Washington 22, D. C.	Other arms manufacturers in the United States are listed below. Note: The J. C. Higgins line (Sears, Roebuck & Co.) are manufactured by High Standard Mfg. Co. Arms bearing the Montgomery Ward & Co. name are manufactured by several of the companies listed below.
Beretta	J. L. Galef & Sons, Inc. 85 Chambers Street New York 17, N.Y.	J. C. Higgins (Sears Roebuck & Co.) 825 S. St. Louis Chicago, Ill.
Browning	Browning Arms Co. 1718 Washington Ave. St. Louis, Missouri	Ithaca Gun Co. 123 Lake St. Ithaca, N.Y.
Colt's	Colts Patent Firearms Manufacturing Co. 150 Huyshope Avenue Hartford 15, Conn.	Iver Johnson's Arms & Cycle Works Fitchburg, Mass.
Daisy	Daisy Manufacturing Co. Highway 71 South Rogers, Arkansas	Marlin Firearms Co. 11 West 42nd St. New York 36, N.Y.
Dardick	Dardick Corp. 4 West 58th Street New York 19, N.Y.	Mathieu Arms Co. 1342 Everett Ave. Oakland 2, California
Neuhauen Hammerli	Heinrich F. Grieder P. O. Box 487 Knoxville, Illinois	Montgomery Ward & Co. 619 W. Chicago Chicago, Ill.
Great Western	Great Western Arms Co. 350 W. Washington Blvd. Venice 2, California	O. F. Mossberg & Sons, Inc. 131 John St. New Haven 5, Conn.
Harrington & Richardson	Harrington & Richardson 320 Park Avenue Worcester 10, Mass.	Noble Mfg. Co., Inc. Haydenville, Mass.
High Standard	High Standard Mfg. Co. 1817 Dixwell Avenue Hamden 14, Conn.	Routledge Mfg. Co. 115 W. 1st St. Monroe, Mich.
Walther	Interarmco 10 Prince Street Alexandria, Va.	Sheridan, Prod. Inc. 1234 13th St. Racine, Wisc.
Thompson Sub- Machine Gun	Nimrich Arms Co. West Hurley 1, N.Y.	Weatherby's 2781 Firestone Blvd. South Gate, Calif.
Remington	Remington Arms Co. Bridgeport 2, Conn.	Whitney Firearms Co. Box 342 Hartford 1, Conn.
Smith & Wesson	Smith & Wesson, Inc. Springfield, Mass.	
LLama	Stoeger Arms Co. 507 Fifth Avenue New York 17, N.Y.	
Ruger	Sturm, Ruger & Co. Southport, Conn.	
Star	Firearms International 4837 Kerby Hill Road Washington 22, D. C.	
Winchester	Winchester-Western Division, Olin Mathieson Chemical Corporation New Haven 4, Conn.	



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For further information circle #24 on Readers Service Card



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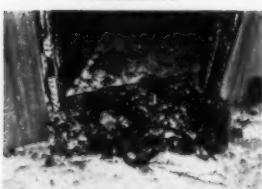


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For further information circle #13 on Readers Service Card

The Camera Column

David O. Moreton



IN SEPTEMBER'S CAMERA COLUMN I started discussing negative faults and the remedial action necessary to correct these faults. To repeat, negatives so corrected will not produce a top quality print but they should produce a usable print of acceptable quality. This month we discuss the remaining negative faults:

Blurred and distorted images. Scum and surface deposits. Spots and markings. Stains and discolorations. Mechanical defects and injuries.

However, before we proceed with the above negative faults I find that we inadvertently failed to include the section on uneven density with the first installment.

Uneven Density—Patchy.

Cause—If the negative has areas of different density or streaks of uneven density one or more of the following could be the cause. Uneven density can be caused by insufficient agitation; portions of the negative may stick to the sides of the tank or to the adjacent sheet of film. It is possible that insufficient developer was used to cover the negative or the negative may not have been completely and evenly immersed in the developer.

Prevention—Sufficient quantity of developer; agitate as directed by the manufacturer and immerse the films smoothly and completely.

Remedy—Local bleaching and intensification may be used in instances where the unevenness is not too great but generally there is no remedy.

Flow Marks and Streaks

Dark streaks found at the edges of the negative corresponding to the holes of the film hanger and caused by excessive agitation. In excessive agitation the flow of the developer through these holes causes directional streaks. The image on the negative appears to have a streak or "tail" of low density extending from areas of strong highlight.

Cause—The restraining agents in exhausted developer flow down the surface of the film during machine or tank development.

Prevention—Fresh developer solution along with proper agitation and fixing to remove all traces of developer.

Remedy—There is none.

Uneven Fixing

Cause—Insufficient agitation and/or incomplete immersion in the fixing bath can cause variations in negative density.

Prevention—Negatives should be completely immersed in the fixing bath; they should be moved about (agitated) when first placed in the bath to rid the film surface of air bubbles and also at intervals during the fixing process. Care should be exercised

so that the negatives do not stick together nor float to the surface of the solution where portions are exposed to air.

Remedy—There is none.

Blank Areas

Cause—Blank or light areas or streaks with well defined edges can usually be traced to some obstruction in or in front of the camera. These obstructions range from one's finger or camera case flap to a sagging or pushed-in bellows that cuts off part of the image.

Prevention and Remedy—More care.

Uneven Emulsion Coating

Apparent unevenness, bare spots and variations in emulsion thickness usually bring down loud claims about faulty manufacture. While it is possible, it is none-the-less extremely rare and such variations can almost always be traced to improper handling of the film during processing.

Prevention—Care in processing.

Remedy—There is none.

Blurred and Distorted Images

Cause—Generally speaking there is little that can be done when the

image is blurred or distorted, but there are recommendations than can prevent reoccurrence. When only part of the image is blurred and images either closer to or further from the camera are in focus, the photographer probably made a mistake in focusing, or it may be that the exposure was made with lens at too large an aperture to get the depth of field required. If moving parts (arms, head, etc.) are blurred, the shutter speed used was too slow for the action.

Prevention—More care taken in properly focusing the camera with the careful use of either the range finder or ground glass to determine correct focus. Insufficient depth of field may be avoided by the proper use of depth of field scales, tables and formulas. Where we find subject motion, this can be either corrected or reduced (depending upon speed of subject) by using higher shutter speeds, and in some instances the camera angle can be changed so that the action is not across the field but rather toward or away from the camera.

Remedy—There is none.

Image Indistinct

Cause—When the image is foggy or generally flat and bright objects have fuzzy glows or halos around them it may be the result of strong light (sunlight, etc.) striking the front element of the lens and being reflected within the lens. It may also be due to moisture condensation on the lens in cold weather, rain drops on the lens or a dirty lens.

Prevention—Hazeiness due to strong light being reflected within the lens may be prevented by the intelligent use of a lens shade. (I use one most of the time.) The other causes may be corrected by careful cleaning of the lenses.

Remedy—There are instances where the use of a hard paper in making a print will help but generally speaking there is none.

Image Completely Blurred

Cause—Camera movement during exposure.

Prevention—A tripod should be used for the slower shutter speeds (i.e. 1/25 or slower) and the camera should be held as steady as possible during exposure: hold your breath if supporting the camera against the chest. Note: where a negative is intended for enlargement use a tripod for any exposure under 1/100 of a second or under 1/25 of a second for contact prints. This is not a hard and fast rule; it depends upon your ability.

Remedy—There is none.

Multiple Image

Cause—When two or more different subjects, views or scenes are on the same negative the film was not changed between exposures.

If you have multiple images of the same subject it is caused by tripping the shutter twice by accident (intentionally on occasion).

Prevention—Some cameras have double exposure preventive devices, which require that the film be advanced between each exposure be-
(Continued on Next Page)

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For further information circle #76 on Readers Service Card

November, 1959

Camera (From Page 89)

fore the shutter can be cocked again. It is best to form a habit of either winding the film between each exposure or when using a film-pack to pull the tab immediately following exposure.

Remedy—There is none.

Partially Blurred Negative

Cause—If part of the negative is blurred while other portions are sharp you will usually find that the film is not lying flat in the camera.

Prevention—In the case of film holders check the film groove to be sure that it is perfectly straight. If it is not straight it is possible that the film will buckle in the holder. In roll film cameras the pressure

plate should be checked to see that it holds the film perfectly flat.

Remedy—There is none.

Distortion Due to Irregular Shrinkage

Cause—Image distortion can occur if a negative is dried at too high a temperature. This causes the emulsion to soften and it will slip or creep on its base or support. Some swelling and shrinking always occurs in processing of film. An irregular image or a variation in the size of the image can be the result of an irregular swelling or shrinking of the gelatin coating of the film. Film processed and then dried in the same holders will sometimes stick to the holder and buckle as it dries.

Prevention—Do not use excessive heat in drying negatives. Remove negatives from holders or hangers for drying. Use hardening hypo or fixing baths. Maintain the same processing temperatures for all solutions (between 68° and 70° Fahrenheit).

Remedy—Sometimes it may help to rewash and carefully dry the negative; otherwise there is none.

Scum and Other Surface Deposits

Cause—Scum on negatives is the result of foreign solid matter floating on the surface of the processing solutions. It is usually transferred to the surface of the negative when the film is first placed in the solution or as the processed film is removed from the processing solution. The scum or foreign matter may consist of dust, insoluble matter, oxidation products of the developer, oil, grease and the like.

Prevention—The surface of the processing solutions should be skimmed before use or daily, cheesecloth or a blotter is good for this purpose.

Remedy—This depends upon the cause and its source. Carbon tetrachloride can be used to remove oil and grease scum. Warning—the use of alcohol as a solvent is not recommended, especially on acetate film.

Silvery Deposit

A silvery or metallic sheen to the surface of the negative.

Cause—(1) a metallic silver deposit that has been precipitated in colloidal form from the developer and settles on the film, or (2) silver sulfide formed by the interaction of dissolved silver salt in the processing solutions and hydrogen sulfide in the air.

Prevention—When using developers containing a silver solvent (i.e., sulfide) or accidental traces of hypo, it is advisable to filter them to remove the colloidal silver. Also frequent cleaning of the tanks and processing equipment will prevent sulfide stains and contamination of solutions.

Remedy—Using a cotton swab, the deposit may be swabbed off before the negative dries. Where a negative has dried with the silver scum on it, it may be removed with a one percent solution of potassium cyanide.



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Slime

Cause—Slime on negatives usually comes from a slime deposit on wash tanks, whose walls have become covered with slime from running water.

Prevention—Tanks should be scrubbed and sterilized with sodium hypochlorite.

Remedy—Slime may be washed off negatives while still wet. It cannot be removed from a dry negative.

Crystalline Deposit

Cause—The negative has the appearance of a frosted window pane if hypo remains on the film and crystallizes after incomplete washing.

Prevention—Thorough washing of the negative after fixing.

Remedy—Rewashing will remove the hypo deposit, provided the negative has not yet begun to fade.

Greenish White Scum

Cause—This is caused by a precipitate of chromium hydroxide or basic chromium sulfite resulting from chrome alum fixing baths.

Prevention—Wash the negative thoroughly in water between development and fixation when using chrome alum fixing baths.

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World-wide acceptance by police chiefs, magistrates, traffic courts, driver education instructors, insurance adjusters, lawyers and safety engineers.

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For further information circle #140 on R. S. Card

November, 1959

Remedy—If the negative has dried it is impossible to remove the deposit, however it may be removed while still wet by swabbing with cotton.

White Powdery Scum

Cause—This is caused by a deposit of aluminum sulfite from the hardener in the fixing bath. This occurs when the acid in the fixing bath is exhausted by developer carried into the solution by the film. A similar deposit is caused by calcium sulfite when hard water is used for mixing the solution or if the fixing bath loses acidity.

Prevention—Maintain the acidity of the fixing bath, rinse the film in water or use an acid stop bath between developing and fixing. Also agitate the film when it is placed in the fixing bath. Use a fixing bath that contains boric acid. They have less tendency to produce scum.

Remedy—Calcium sulfite deposits on film can be dissolved in acetic acid. Aluminum sulfite is removed by first hardening the negatives with formalin and then using a five percent solution of sodium carbonate.

To be concluded in next issue.

END

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For further information circle #9 on Readers Service Card

CRAM OVER TEN PERCENT of our nation's vehicles on to but three and eight-tenths of its roadways; throw in extremes of terrain and temperature that range all the way from 14,496 foot Mount Whitney to scorching Death Valley, 289 feet below sea level where the temperatures hover around the 120 degree mark for days on end; send them all whizzing over some **63 million miles** a year and what do you think the outcome will be?

Highway chaos and confusion of course.

Such is the situation faced by Commissioner Bradford M. Crittenden of the California Highway Patrol and his staff of 2592 uniformed personnel. No one appreciates the magnitude of this problem any more than do these men of law enforcement who are entrusted with safeguarding the interests of California's motoring public.

With a spectacular population growth that saw over fifteen million residents driving some eight million vehicles over sixty-three billion miles last year, California's traffic problem has mushroomed with atomic proportions.

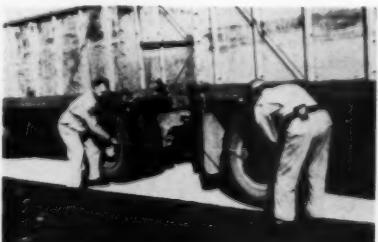
Things move fast in the Golden State and nowhere are they busier than on the roadways. Keeping things channeled in the proper manner and right direction calls for efforts unparalleled in the field of law enforcement.

Tried and true methods are no longer enough. Policing today's fast moving economy calls for the most modern means available. Faced with one of the greatest traffic law enforcement problems ever known to man, the CHP has met the challenge with the finest men and equipment obtainable. **From complex computers to the latest in high frequency communications techniques, the Patrol employs them all.**

Crash helmets, safety harnesses and roll bars are "musts" on the EVOC course.



Checking motor truck for possible overload violations is a 'round the clock operation.



To combat the problem of mass highway mayhem, the California Highway Patrol has developed a program based on a foundation of three E's—**Education, Engineering and Enforcement.**

Education aimed at telling citizens of California the facts about the grisly statewide accident story that saw the bloodstained traffic accident scoreboard tick off one death every 2.5 hours and an injury every 3.9 minutes throughout all of 1958. It is an intense program, employing every means of communication available to get the message across and to tell what is being done to remedy the situation. It's a program that also includes detailed instructions and recommendations on how driving habits can be bettered. Improved enforcement through increased public support is the goal of the education program.

The **engineering** aspect concerns itself with a study of accident causes and the issuance of recommendations for roadway design and construction improvements.

Selective **enforcement** is the key to the third leg of the Big E triangle. Stretching the authorized manpower to provide around-the-clock coverage, seven days a week on some eighty-one thousand miles of rural¹ highways is no easy task.

To insure the most effective utilization of men and equipment, individual patrol assignments within the fifty-seven state-wide area divisions, some with as many as twenty-eight separate beats, are made on a "when and where the need exists" basis. Each month an IBM computer at central headquarters in Sacramento compiles a statistical analysis showing the location, day, hour, type and violation behind each accident investigated. A copy of this report for each of the

¹ Incorporated areas are normally covered by city police departments.

Entrance to the CHP Training Academy in Sacramento.





assigned patrol beats under its jurisdiction is furnished to every area office.

By studying these figures, officers going on patrol know where to concentrate their enforcement efforts and what to look for. It is an approach that is paying off. Despite the tremendous increase in population, California's traffic death rate is declining. Last year the state had the lowest vehicle mileage death rate it has ever recorded.

In addition to accident investigation and traffic law enforcement throughout all unincorporated areas in the state, the Patrol is charged with checking the almost two million commercial vehicles on the road for violations of the code. Permanent and mobile weighing stations are on continuous alert for overload and other rule infractions. Proper licensing and registration of all vehicles is also a part of the Patrol's investigative duties.

Checking auto thefts is another important responsibility. Over 3600 stolen vehicles were recovered last year by officers whose efforts led to the arrest of 1564 car thieves.

California's school children ride their busses in safety thanks to the stringent efforts of the Patrol. Over 7500 school busses were inspected during 1958 and each year bus drivers compete in a CHP-supported driving Road-eo. The Department also supervises the activities of a small army of school crossing guards.

Facts and figures simply do not exist to indicate the number of "beyond the call of duty" incidents performed by members of the Patrol each year. Emergency messages from worried relatives are relayed to travelers throughout the state. Assistance at all hours is administered via the Patrol's toll-free emergency telephone number, ZENith 1-2000. Desperate races with death as officers rush vital medical supplies into critical areas are accepted as being all in a day's work. Deeds such as these are merely part of doing a good job, to the heroes who perform them.

Heading the Patrol is a Commissioner who is assisted by a Deputy Commissioner, an Inspector-at-Large and an Aide. Under the Commissioner's Office are found a Field Operations Division, the Technical Services Division and the Administrative Division. Commanders of the Divisions report directly to the Commissioner.

To ease the administration of the Field Operations Division which is by far the largest of the three, the state is divided into three zones—Coastal, Valley and Southern. The fifteen districts and fifty-seven areas within the three zones embrace the entire state.

The Patrol operates with an authorized strength of 2592 uniformed personnel which includes 2253 traffic officers, two special investigators, two-hundred sergeants, fifty-five lieutenants, fifty-eight captains, seventeen inspectors, four supervising inspectors, one Assistant Commissioner, one Deputy Commissioner and the Commissioner. In addition, there are 360 pedestrian crossing guards and 771 civilian employees.

All personnel, except the Commissioner and Deputy Commissioner, are members of the State Civil Service System.

Applicants for the position of traffic officer are selected by means of written and physical examinations which are given as the need for recruitment arises. Each new State Traffic Officer, whose beginning salary is \$458 per month, completes an extensive training program before he is assigned to field duty.

Candidates must be United States citizens, between the ages of 21 and 31, possess a twelfth grade education or its equivalent and must reside in California.

Just what is it that motivates this group of dedicated men to give so untiringly of their efforts? Men who last year traveled over fifty-four million miles in all kinds of weather and on all types of roads in the performance of duty. Men who know no true off duty hours and whose constant vigilance plays such a vital role in safeguarding the lives of California's more than 7½ million drivers.

In an effort to obtain an answer to this question, I visited the Patrol Training Academy at its 220-acre site on the outskirts of the state capital. Here I met and talked with the men who mold the eager but green cadets into California's Guardians of the Highways. It was here also that I found modern facilities and

(Continued on Next Page)

California HP (From Page 93) equipment designed to prepare today's traffic officer to cope with the problems of tomorrow.

The attitude of training Supervisor Lieutenant Fred Engle illustrates the forward thinking philosophy of the entire course of instruction.

"The world moves. If we don't move with the rest of the world, we'll be left behind."

From what I saw firsthand, no one's going to move ahead of CHP.

Thrills came quickly as I inspected the EVOC (Emergency Vehicle Operations Course) training area and traveled the 2.2 mile high speed roadway at speeds well over 100 MPH. My safety harness and crash helmet were well appreciated as the instructor and I twisted through turns designed to train officers how to handle the heavy horsepower of modern cars on winding roads.

The only facility of its kind in the United States, EVOC is used to teach officers how forces act on a fast moving body and the proper way to compensate for them.

Included as well is a skid pan area. Here on a water and oil covered circular track, cadets learn how to master the secrets of a skidding car.

The intense twelve week training period at the Academy is broken in to the following categories:

Subject	Length
CHP Procedures	2 weeks
Vehicle Code-Penal Code	3 weeks
Court Procedures & Evidence	1 week
Accident Investigation	2 weeks
Traffic Law Enforcement	2 weeks
Related Police Subjects	1 week

Listed among the material covered in the last item are such items as:

- History and Geography of California
- Language Problems
- Mob-Riot Control and Gases
- Motorcycle and Hot Rod Safety
- Motorcycle Training
- Police Ethics and Public Contacts
- Public Information
- Report Writing
- Weapons Training.

Members of the California Highway Patrol are well-rounded personalities to be sure.



CHP Safety Education Buses are part of the education program.

Recruit, in-service and specialized training are offered at the Academy where facilities are available to members of all law enforcement agencies throughout the nation.

From the samples of the training program I witnessed, it was easy to see why the CHP Academy ranks among the finest of such facilities in the nation. As I talked with the serious-minded students and their inspired leaders, I could better understand how such a tremendous *esprit de corps* is developed. Somehow I could sense a little of that feeling of brotherhood and loyalty that has caused so many of the officers to unselfishly give their lives in the performance of duty. It is no wonder California is proud of such men.

The problems of the Patrol are as wide and varied as the topography of the state. In the larger cities, where King Freeway holds sway, the matter can be summed up in but one word. Automobiles.

Just too many of them for the roadways to handle. Here, a single violation may result in a crash that can tie up traffic for hours.

Up in the mountain areas it is a much different matter. Distance becomes a prime factor and a single officer may be responsible for a stretch of a hundred miles or more. Atmospheric conditions raise hob with radio reception. Tall peaks play strange tricks with radio waves.

A patrol car may be unable to read his own dispatcher located but a few miles away while at the same time picking up transmissions from a Japanese fishing fleet in the Far East.

One universal problem is a lack of manpower. The CHP simply does not have the authorized manpower to bring adequate enforcement in all of the high-accident-frequency locations throughout the state.

Recruitment has yet to be a problem. The number of young men anxious to join the ranks stands as an impressive tribute to the reputation of the corps.

So, too, stands the record of each individual member of the Patrol. Good neighbors and citizens wherever they may be assigned about the state, each officer is a man well admired and respected by those who know them. Feared by those who oppose the law, the California Highway Patrolmen are strong symbols of Men in Law Enforcement in their finest hour.

END



Every CHP officer is well versed in the techniques of good violator contacts.



Is everything interchangeable on the Hasselblad 500 C?

Yes, everything but the guarantee that comes with the name Hasselblad.

You can make "snap" changes between four top-quality Zeiss lenses, the Planar 2.8/80 mm (standard lens), Distagon 5.6/60 mm, Sonnar 4/150 mm and the Sonnar 5.6/250 mm. All have built-in Synchro Compur shutters, automatic and manual diaphragm control and movable depth-of-field indicators.

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For further information circle #265 on Readers Service Card





POLICE EQUIPMENT NEWS



Identification Badges

The average citizen is frequently placed in an awkward position when he wishes to speak to a police officer. Generally uncertain as to the officer's

JAMES CARTER

rank, and not knowing his name, the citizen is at a loss to know how to address the officer respectfully. This situation can easily be remedied, and public relations improved, by wearing a small identification badge above the shield.

These identification badges are made by **Reeves Company**, 225 Brook Street, Attleboro, Mass. Available in three sizes, a variety of color combinations, clutch or pin fasteners, these badges cost \$1.50 each including engraving.

For further information, circle #363 on the Readers Service Card.

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proof; the finish cannot be scratched. Guaranteed for ten years, these signs are long lasting, easily transferable from one vehicle to another. Price varies according to size, design, number of colors, and quantity ordered. For further information, write the distributor, or circle #365 on the Readers Service Card.



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For further information circle #36 on Readers Service Card

Salivimeter

The **Arizona Serological Laboratories**, P. O. Box 4133, Tucson, Ariz., has made available the Salivimeter, a new portable test for intoxication. The device is about half the size of a pack of cigarettes, is light weight, and costs about \$2.25.

The subject is requested to furnish a sample of saliva on waxed paper. Using a small dropper, the unlabeled vial is filled with saliva, the vial tightly recapped, shaken thoroughly, and held in the hand for 30 to 60 seconds. If the test vial is darker or greener than the sealed ampule marked "0.15%", the subject has a blood alcohol concentration of 0.15% or above. The two vials are placed in a box and sealed to be held as evidence.

If necessary, the device may be sent to a laboratory for spectrophotometric examination to determine exact blood alcohol equivalent.

For further information, circle #364 on the Readers Service Card.

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The Sertoma Junior Rifle Club

by **Sgt. Stanley Pierce**

St. Marys (Ohio) Police Department



WHEN the 17th of next months rolls around our Junior Rifle Club will have its fifth birthday. The Club was chartered December 17, 1954. Bill Shelby, a former member of St. Marys Police Department, was the adult advisor and Sgt. Stanley Pierce was the instructor. Finding a suitable place to meet was no problem as we were offered the basement of the Union Building and Loan for our first organizational meeting. Subsequent meetings were held in the St. Marys Guard Armory. At the present time, we are fortunate in having the basement of the Huber Furniture Store available to us. This space was donated for our use by Mrs. Andrew Makley, owner of the building, and has a fifty foot indoor range. The Club meets every other Saturday and Monday evening.

Equipment

Boys and girls joining the club do not need to furnish their own rifles. The rifles are furnished by the Division of Civilian Marksmanship with which the club is affiliated. The DCM also furnishes targets and ammunition in proportion to the membership of the club.

New NRA Charter

Recently the Rifle Club received a new charter from the National Rifle Association of Washington, D. C. We now have over fifty members in the club and each month more and more youngsters and their parents join us. It is interesting to note that five of the present membership are charter members of the club. Four of those five members have received the highest award possible, the Distinguished Rifleman Award. The age of the members is set from 12 to 18 years of age. Club rules prohibit the use of automatic

rifles as only bolt action guns are allowed.

Awards in Competition

The club is now in first place in the Western Ohio Junior Rifle Club League. We are particularly proud of this standing because to attain the honor, we had to take it away from a club that had won it for eight straight years. Our club placed sixth in the Ohio State Outdoor Championship Matches at Sidney, Ohio. Transportation for all out-of-town matches is provided by the friends and parents of the members of the club.

Unusual Honor

The Sertoma Junior Rifle Club holds a rare honor indeed. We have the only identical twins known to have received the Junior Distinguished Rifleman Award in the same month. Both boys, Jerry and Larry Shelby, had to be proficient marksmen to receive the award. Jerry received his award July 1, 1958, and Larry received his July 19. Their sixteenth birthday was on July 2nd, so it was a nice present for both of them.

To earn the award, they had to shoot forty targets, prone, sitting, kneeling and off hand positions. The targets were sent to NRA Headquarters for scoring. Pro-marksmen, Marksman, Marksman First Class, Sharpshooter and Expert Riflemen Awards precede a Distinguished Rifle Award.

Father and Son Shoot

Every six months the club holds a Father and Son Shoot, and a traveling trophy is given to the winning father and son team. The trophy is donated by a local sporting goods shop. This feature is one of the high spots in the club's activities and is

eagerly awaited by both fathers and sons.

Business Meetings

Every organization must hold regular business meetings and the Sertoma Junior Rifle Club is no different. Twice each month a business meeting is held. At these meetings, finances, out-of-town matches, and all club activities are discussed. The members also help other organizations in selling tickets for various shows, raffles for hospital benefits, or other activities. The club also participates in parades and other civic events.

Anti-Juvenile Delinquency Medicine

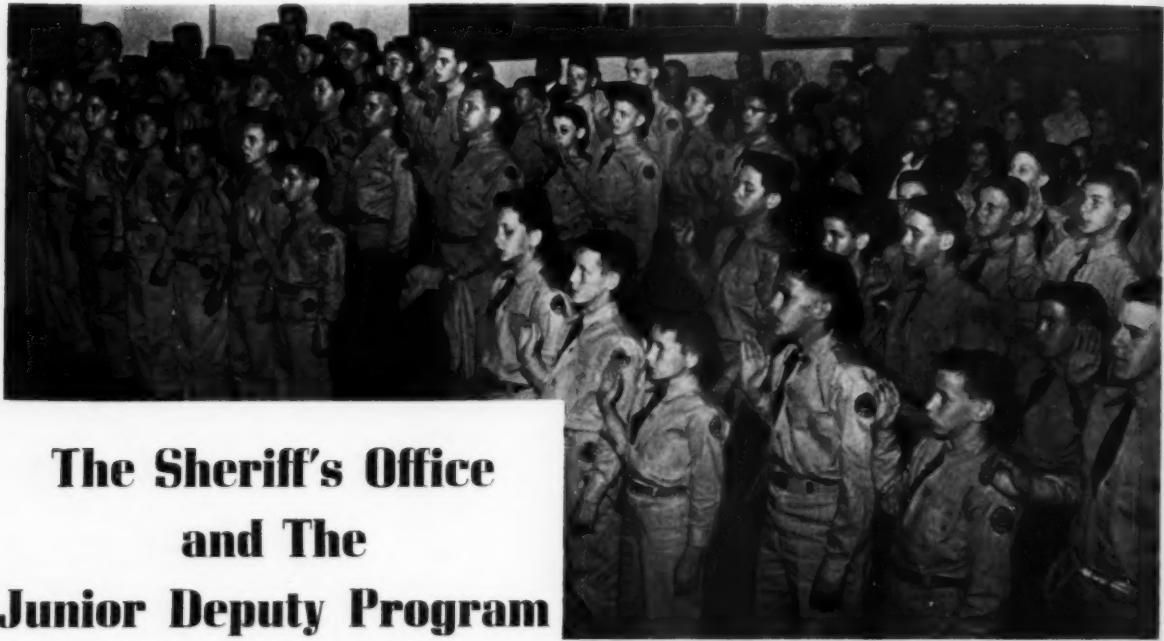
Spending hundreds of hours with these youngsters, we are turning out some of Ohio's finest shooters. The instructor is qualified through the NRA to teach the Hunter Safety Course and is authorized to conduct classes and to award certificates to deserving graduates of the course. The Sertoma Junior Rifle Club is teaching the youth of the community the proper way to handle firearms and is doing its part in curbing juvenile delinquency. **END**

News Briefs

New Delinquency Control Institute class at the University of Southern California commenced on September 17th. Dep. "Con" Erets, Cowlitz County Sheriff's Office and Officer Bill Bailey, Delso Police Department from the State of Washington were in attendance.

Col. Bill LaFarge, Provost Marshal at Fort Lewis, Washington has been asked by the Provost Marshal General to develop a policy and procedure in handling juvenile problems in and around army posts. This is a new and

(Continued on Page 100)



The Sheriff's Office and The Junior Deputy Program

By Murray F. Landry, Jr.

Director Deputy Sheriff's League, Assumption Parish, Napoleonville, Louisiana

ALL ALONG THE BAYOU COUNTRY in Assumption Parish in south Louisiana, the people are accustomed to seeing uniformed young boys actively participating in community and parish-wide functions. These young citizens are members of the Junior Deputy Sheriff's League of Assumption Parish.

The late Sheriff Albert P. Dominique organized the League in 1956 under the direction of Murray F. Landry, Jr., a former high school mathematics teacher and Captain in the Louisiana National Guard.

Sheriff Dominique organized the Junior Deputy League with these main objectives in mind:

1. To prevent accidents in traffic, on water, and with firearms.
2. To acquaint youth with the functions of local government and law enforcement.
3. To achieve a constant decrease of the juvenile delinquency rate.
4. To demonstrate that law enforcement officers are friends and not enemies.
5. To render valuable services to the community through juvenile police work, training for general emergencies, assistance in the protection of life and property.

Interested boys twelve years old and older, attend twelve one-hour classes covering such subjects as safety with firearms, safe driving procedure, first aid, civil defense, law enforcement equipment, local govern-

ment and officials, fingerprinting, defensive tactics, observation and identification, and the work of the F.B.I. Upon completion of this training, a final written examination is given and graduation then follows. Graduates are issued a certificate and badge and are allowed to wear a prescribed uniform at all future meetings and special assignments. Since the organizational meeting in 1956, over seven hundred young boys have satisfactorily completed the basic course and have become eligible to wear their badges as Junior Deputies.

Assumption is a rural parish in south Louisiana with Napoleonville, the parish seat, the only incorporated town in the parish. The population, 17,278 in number, is scattered over 484 square miles, and realizing transportation to meetings would present a major problem, Deputy Landry has organized his units at nine public and private schools located throughout the parish.

Junior Deputy graduates are very active in many community functions. A traffic safety patrol has been organized and is active at the various schools in the parish; assistance has been rendered at school and church activities in the parking of cars and giving information to the public; manning road blocks for the purpose of collecting contributions for Red Cross, Cancer Drive, Crippled Children Fund and other fund raising programs; distribution of important posters to the general public such as vaccination schedule in parish for dogs against rabies, and state mobile X-ray unit schedule for tuberculosis.

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JUVENILE OFFICERS' ASSOCIATION

The Junior Deputies are rewarded for their efforts through a promotion system based upon the number of hours worked in assigned activities. Each Junior Deputy records his time on an activity sheet and when he has fifty hours, he is promoted to corporal. After one hundred hours, he is eligible to wear sergeant stripes. Those who work three hundred hours are elevated to officer ranks as a second lieutenant and five hundred hours gives the Junior Deputy a promotion to first lieutenant. The highest rank, that of captain, is attained after one thousand hours. At the present time, two members have been promoted to first lieutenant and one to second lieutenant.

A unique feature of the Junior Deputy League of Assumption Parish is its close cooperation with the parish Civil Defense organization. Junior Deputies actively participate in all Civil Defense exercises and until the Air-Ground Observers Corps was discontinued by the federal government, all Junior Deputies were Civil Defense airplane spotters.

A new phase of training has been just recently included in the program. In order for the volunteer fire departments to have trained personnel, the Napoleonville Fire Chief, Lawrence Blanchard, has been conducting classes for Junior Deputies as future fire-fighters. It is hoped that this training will be conducted by the other volunteer fire departments in the parish.

The members of the League have several opportunities to receive medals and awards. To encourage better grades in school, the League awards a scholastic medal to the Junior Deputy who earns the highest subject average at each school. Medals are also awarded for honesty, service, and sportsmanship.

The Junior Deputy League is a member of the National Rifle Association and is also recognized by the Department of the Army as an approved organization to train young boys with firearms. The members fire qualification courses for the NRA and the Department of the Army and are eligible for all medals issued by these two organizations.

To encourage the members to more fully cooperate with the parents in the family chores, the Junior Deputies are given credit towards promotion for all extra work performed at home during the weeks of Father's Day and Mother's Day. The parents are notified of this information by the Junior Deputy Director, and they are encouraged to assign extra duties to their sons during these two weeks. Regular assigned chores are not recognized as hours towards promotion.

To increase their knowledge of local government and law enforcement, all graduates are taken to the parish courthouse in full dress uniform and visit the various governmental offices such as clerk of court, assessor, registrar of voters, license bureau, courtroom, sheriff's office, and the parish jail. A lecture is given to the boys by the various officials on their respective duties and responsibilities. The trip is then ended with a demonstration covering the complete procedure used

by the sheriff's office from the time a complaint is received to the time the offender is jailed. The rights of a prisoner are also explained by Deputy Landry. A visit to the jail is the climax of the all day trip.

In appreciation for their work as members of the

(Continued on Next Page)



Junior Deputies checking parked unlocked cars for ignition keys. Notices are left in cars found with keys.



A group of Junior Deputies manning road blocks for March of Dimes Drive. Over \$600 collected in five hours.



A firearm class on "Proper Sight Picture and Trigger Squeeze."



The Sheriff's Office (From Page 99) school safety patrol, the Junior Deputies are taken on a visit to the state penitentiary, Angola, Louisiana.

The success of the League in Assumption is due largely to the complete cooperation given the sheriff's office by the citizens and organizations of the parish. Barbera Chevrolet Company donated a new car to the League when it was organized in 1956; a ten firing-point rifle range was constructed by local organizations and citizens without expense to the sheriff's office; a school bus was purchased by several parish organizations and donated to the League; and the school board has given permission to Deputy Landry to use any school building and facility needed for the meetings and classes.

In order to devote the proper time to new members, Deputy Landry accepts the new members for a maximum period of three years. Upon completion of this time, an honorable discharge is issued showing the period enrolled as an active Junior Deputy, hours worked, rating, firearm qualification, and any additional awards or recognition. It is hoped that this certificate may be of some assistance to the members when seeking future employment.

The organizer of the League, Sheriff Albert P. Dom-

ine, died October 3, 1958. With an election necessary for the Sheriff's position, many a young man became concerned for the future of their organization, but Mrs. Albert Dominique was persuaded to seek election as sheriff, and she was victorious by a great majority. Realizing that the League was the pride and joy of her late husband, she pledged to continue its operation. In January, 1959, the lady sheriff issued thirty-two badges and certificates to new Junior Deputies at the St. Benedict Catholic School and in February, 1959, she issued 107 badges to the members of the second graduating class of her term.

It is true that the members of the League have actively participated in many parish-wide drives and organizational functions. They are to be commended for their hard work and interest in their community. But, although the League was not started because juvenile delinquency was a major problem in the parish, has the program proved successful in curbing juvenile delinquency? Records in the sheriff's office reveal that fifty-six juvenile cases were handled in 1956 compared to twenty for 1958. Mrs. Dominique feels that the program will continue to be a success because of the cooperation given the League by the parents, school authorities, and the general public.

END

News Briefs (From Page 97) challenging concept by the armed forces.

Many state Juvenile Officers Associations are busy developing plans and programs for the forthcoming White House Conference on Children and Youth.

I.J.O.A. president Roy Hibbard was one of the speakers at the Annual Conference of the Western Probation and Parole Association at Phoenix, Arizona, on October 21st.

Capt. Frank Popello, our First Vice-President from Phoenix, Arizona, acted as host to the annual meeting of the I.J.O.A. Board of Governors on October 16th and 17th.

Capt. Mike Wolke and Lynn Swanson were guest speakers and panel members at the first Law Enforcement Training Institute sponsored by the St. Louis Police and Sheriff's Departments and the Metropolitan Youth Commission of St. Louis County, Missouri, on September 22nd and 23rd.

Notice To All Members Of I.J.O.A.

This column of news notes is your source of information for greater knowledge and understanding regarding the objectives and aims of our Association. Please submit your news items to the editor such as promotions, transfers, ideas, suggestions, important dates and happenings, etc., for inclusion in this section of the magazine.

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Arson Home Study Course

A new fifteen lesson course on Fire and Arson Investigation is now available from the Investigations Institute, Inc., 53 West Jackson Blvd., Chicago 4, Ill. This vocational school, authorized and regulated by the Department of Registration and Education of the State of Illinois is offering the correspondence course through its General Education and Training Co. Division.

The Institute is under the direction of John Kennedy. For a descriptive

Word Picture

Your gun should always be returned to your holster or case when you have finished shooting—even if you put it down for just a moment to get a light for your cigarette. An actual case was recorded of a shooter just placing his gun on a car fender, walking a few steps to talk to a friend, and when he returned, finding gun and car were gone.

brochure on the lessons, write to him at the above address.



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From the Editor

Gun Permits and Licenses

FOR MANY YEARS there has been a running controversy between law enforcement officers and gun enthusiasts about the control of gun sales and the issuing of permits. There is no question about the fact that both sides have reasonable arguments in their favor. Foremost in the thought of a law enforcement officer is the possibility that his life is at stake when he shoots it out with a criminal—and what is more precious than life, especially your own.

With the increase in personal crimes, such as muggings, armed hold-ups and teen-age gang warfare, where guns have played an active part, there is a united public opinion that stricter laws governing their sale be enacted. In our city, a newspaper which was once a strong supporter for the "shooter" has done an about-face and leads the campaign for stronger gun legislation.

On the opposite side of the fence, private citizens are protesting loudly

against the red tape they encounter when asking for a permit to carry a gun so they may protect themselves. In certain sections of New York City they are afraid to walk home at night. They insist it is their constitutional right to have a gun to protect home and property. The cry is that an honest citizen cannot have a gun because of the law, but a criminal seems to have no trouble getting one.

To the gun enthusiast, his gun is a piece of equipment which he uses in a sport. If the hoods used baseball bats (which can be just as deadly as a gun) would laws be passed prohibiting the sale of baseball bats?

And so the pros and cons go on.

In spite of all the arguments against relaxing gun regulations, we cannot subscribe to the movement. Because a criminal can obtain a gun when he wants one is no reason why the law should be changed. We dare say that if you wanted to use narcotics, you could get them in spite of the law. The same analogy can be used in the illegal traffic of guns. By having laws, and endeavoring to enforce them, the dealer's illicit operation is more difficult.

Certainly there is no more lethal weapon than an automobile. To get a license, one gets a learner's permit first. A written test embracing the laws of safety must be passed. Then, after proving he can operate a vehicle to the satisfaction of an inspector, in accordance with set

standards, the driver's license is granted. And there are two kinds of licenses—one for the professional drivers and chauffeurs, the other for the non-professional driver. Why can't the licensing of gun permits be handled in a similar way?

Standards for the use of the gun could be set by N.R.A., who have been setting standards for many years. There could be written tests in gun safety and tests in the operation of a gun. Two kinds of permits could be issued—one for the professional (bank guards, security men, etc.) and one for the shooter. A shooter should be a member of a bona fide shooting club where his equipment would be securely kept in safe keeping when not in use.

We do not believe in the promiscuous granting of gun permits to people who "just want a gun for protection." We believe it is time law enforcement men and the shooters stop taking pot shots at each other and get together on a program which will be beneficial to both.

Tight registration of guns and the licensing of only those capable of using them in the right manner will be a step toward reducing the illicit flow into the hands of criminals and irresponsible people. The subject of gun regulations is something that needs great exploration, and nothing can be accomplished by having the shooter and the police officer at odds in their thinking.

END

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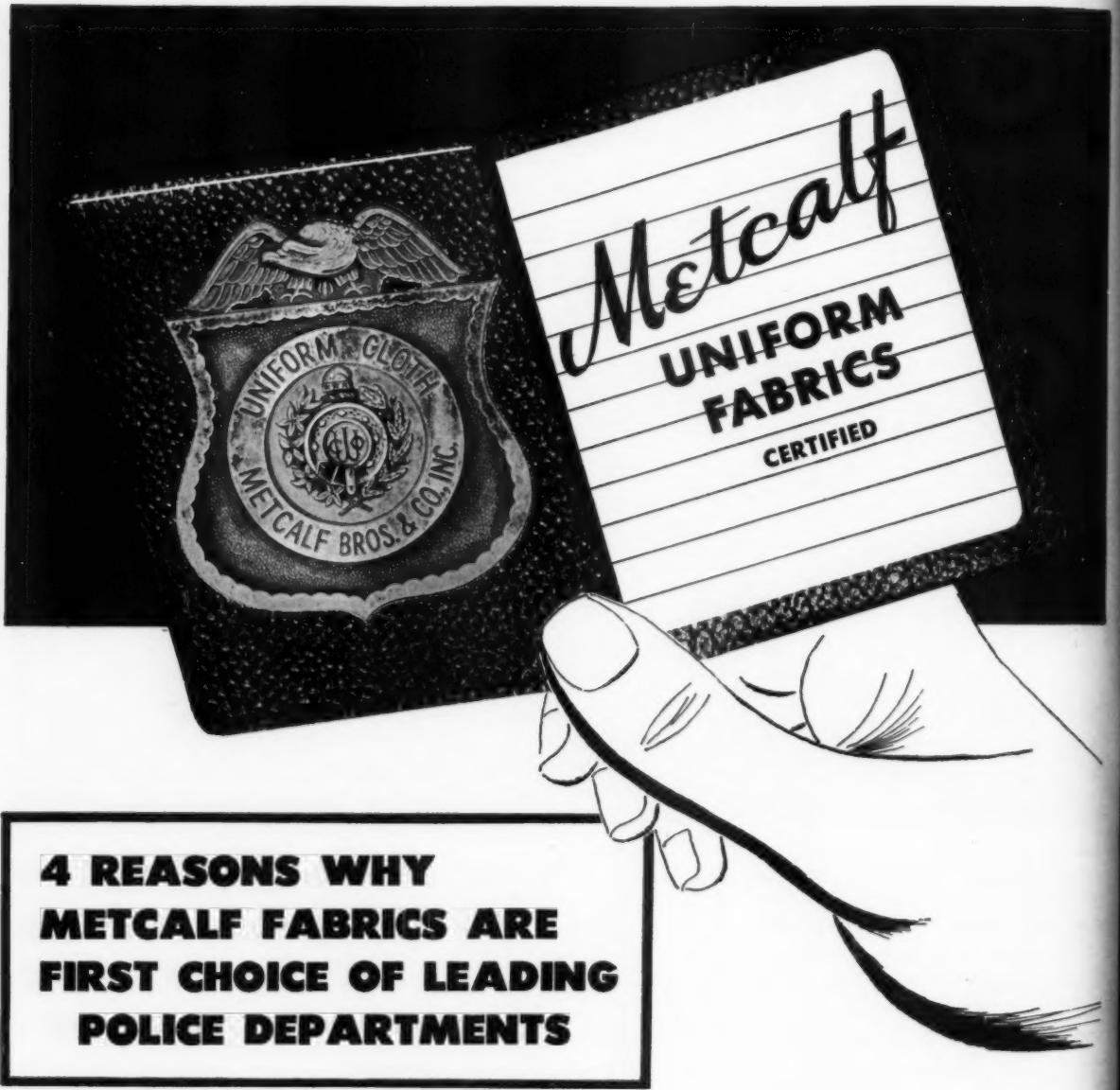


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